

Sales Management

DECEMBER 16, 1960

\$2.00

THE MAGAZINE OF MARKETING

Major Companies Report:

"How We Spot Turning Points in Business"

ALSO IN THIS ISSUE

Growth Analysis of 801
Leading Corporations

Plant, Employment, Sales Data
All Industries and Major Areas

Armco Builds Men to Market
'New Steels' of Tomorrow

INDUSTRIAL

Marketing on

the Move



*For 1961
the editors are proud to announce
that the forthcoming
new novel by*



*Herman Wouk
entitled
"Youngblood Hawke"
and the forthcoming
new novel by*



*John Steinbeck
entitled
"The Winter of Our Discontent"
will appear serially
prior to book publication
in McCall's
First Magazine for Women*

the slipsheet

For issue of December 16, 1960

an informal "f.y.i." before you read the issue

"...One cup of tea, two lumps of sugar, to the 8th floor --- and fast!"

Gazing out of the windows here at Sales Management's New York offices, we've been fascinated by the step-by-step construction of a modern, 44-story office building right across the street. Soon, its interior will be flushed with activity and the clacking static of typewriters. But right now, skilled laborers have the skyscraper to themselves, putting on the finishing touches.

We've noticed with much interest that the "coffee-milk-or-tea" breaks for these on-the-job workmen have been placed on a rather unique basis: they're unofficial "catered" affairs...with the mid-morning snacks being ordered by yelling over the noise of cement mixers, and with the drinks and donuts being delivered to constructioners via the freight elevators...whether they're on the 3rd floor or 42 floors straight up. That's what we'd call service...with a big reach. Sort of an extra "fringe" benefit for those who build for the future!

Service with a big reach is also very characteristic of SM magazine. In case you haven't heard, SM's circulation has surpassed that of 30,000. (In that building yonder, we're certain that some of the space will be occupied by at least one group of subscribers --- that of Socony Mobil Oil Co.) And our reach stretches not only horizontally across the nation, but vertically as well: 16,134 of our subscribers are within the ABC categories of presidents, vice presidents, sales managers and branch and division managers...more than is reached by Printers' Ink, Advertising Age, Industrial Marketing and Media/Scope, combined! That's really a reach with top-notch grabbing power.

We're equally proud of SM's personalized reach between individuals within these groups, as evidenced by this quote from a letter written by Mr. H.S. Bechert, Vice President-Sales, NORTH AMERICAN VAN LINES, INC. --- "Sales Management magazine is not only a good, sound business publication, but a good family publication from the standpoint of our sales management fraternity." Acceptance, by men like Mr. Bechert, of Sales Management as a "house organ" as well as a business publication, is sort of a "fringe benefit" for SM's advertisers.

* * * * *

A new year is just about upon us. It's a year that SM will continue to build and grow, providing even better opportunities for our tenants, i.e., you, our advertisers. Because of time and distance, and also the fact that our noses are already at the grindstone preparing for your May 10 Survey of Buying Power (gentle reminder?), we take this SLIPSHEET as the means of reaching you with our very best wishes for the next twelve months...for a perfect 1961 that is really your cup of tea...brewed the way you want it...without any lumps, whatsoever.

#

The Publishers

Sales Management

THE MAGAZINE OF MARKETING

630 THIRD AVENUE • NEW YORK 17, NEW YORK

YUKON 8-4800

"the slipsheet" is included only in complimentary copies.

The shipsheet

for the year of 1900

The 1900

the shipsheet

the shipsheet

the shipsheet

the shipsheet

the shipsheet

the shipsheet

the shipsheet

the shipsheet

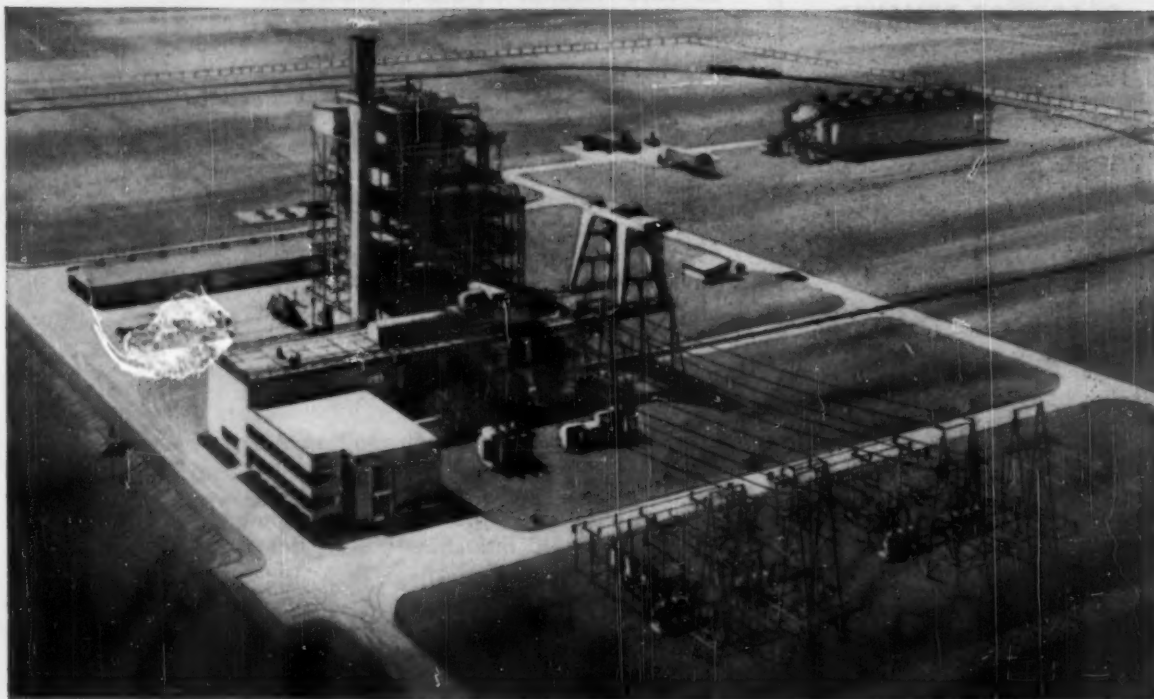
The Publisher

Sales & Management

the shipsheet

the shipsheet

This power plant will be completed in 1961. It will call for \$649,000 worth of instruments and controls.



Whose instruments and controls are they reading about in POWER ENGINEERING?



AUTOMATIC DEADWOOD REMOVER

If you sat down deliberately to devise a method of separating the cream from the crop in any list of potential customers, you couldn't devise a more "self-correcting" system than the built-in "deadwood-remover" you find in the circulation methods of ABP businesspapers.

Its name is money—and it works like this:

A man pays money to subscribe to a businesspaper in any given field because he wants it, uses it in his work. Because he uses it, he is a likely prospect for what you have to sell to the industry covered by the publication.

When he changes jobs or moves to another part of the forest, he has his subscription transferred. If he no longer needs it, he lets it expire. And if he himself expires, his name automatically comes off the list at next renewal date.

While not quite so complex or visually spectacular as the electronic machinery that sweeps away dead bowling pins and sets up live ones, the deadwood-remover in ABP publications is just as efficient. And it saves you, the advertiser, a good deal of time and money setting up the live wood you need for a high average of sales strikes.



The plus value of paid circulation is "wantedness"

Sales Management

THE MAGAZINE OF MARKETING

December 16, 1960

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Executive Offices: 630 Third Ave., New York 17, N. Y. YUkon 6-4800

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when it's a case
of lasting
impressions...



it's the
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Attache Case



You'll see these Stebco Attaches on the big "jets" the "crack" trains—wherever America's top executives and salesmen travel. They take Stebco's famed quality for granted, confident here's a case that will be a credit to them, no matter how big the prospect or how "upper level" the executives they sell. Versatile as a brief case, overnighter or sample case. In your choice of quality leathers or Stebco's exclusive Tufide.

Added feature of Stebco Deluxe Attache Cases: removable desk-like partition that doubles as a writing pad. Snaps in and out easily.

For full details, see your favorite store
or write

STEBCO PRODUCTS
Chicago 7, Ill.

Over 41 years of superior quality



Illinois' Fastest Growing Metropolitan Area in Retail Sales *Remarkable* ROCKFORD

Remarkable Rockford's rate of retail sales increase from 1954 to 1958 was 24.1%, giving it the 54th spot in the United States in rank of growth rate and putting its pace well ahead of all other Standard Metropolitan Statistical Areas in Illinois. This fact was revealed by Dr. H.P. Alpaugh, marketing consultant, in a special report published in MEDIA/SCOPE magazine.

Figures for Illinois SMSA and their rank were:

ROCKFORD	24.1% (54th)
Decatur	17.9% (103rd)
Chicago	17.6% (105th)
Champaign-Urbana	17.5% (106th)
Peoria	15.0% (135th)
Springfield	14.5% (140th)

Just more proof that the people in Remarkable Rockford have money to spend . . . and they spend it! You can reach these "ready-to-buy" people in the columns of the newspapers they ask to have delivered to their home . . . the Rockford Morning Star and Register-Republic.

Finest
FULL COLOR
Facilities

ROCKFORD
MORNING STAR
Register-Republic

FIRST
in ILLINOIS
in
Population
and
Sales
Units
Chicago

Sales Management

Executive Offices: 630 Third Ave., New York 17, N. Y., YUkon 6-4800

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Now . . . the **only** building magazine in the school administration market

The American School Board Journal announces a new editorial program in 1961; detailing all phases of school construction in relation to overall educational needs and objectives.

To advertisers, the Journal offers a new marketing profile, guaranteeing coverage of public school decision-makers in all districts where construction is known to be under consideration or in progress . . . plus coverage of architects known to be active in school planning.

To alert your sales organization, American School Board Journal offers a verified School Construction Report at nominal cost. This marketing tool details school building projects in each building stage . . . identifies all facilities, whether general classroom or special purpose.

**AMERICAN
SCHOOL BOARD
JOURNAL
CONSERVES 1961
ADVERTISING
DOLLARS WITH
NEW MARKETING
REALISM**

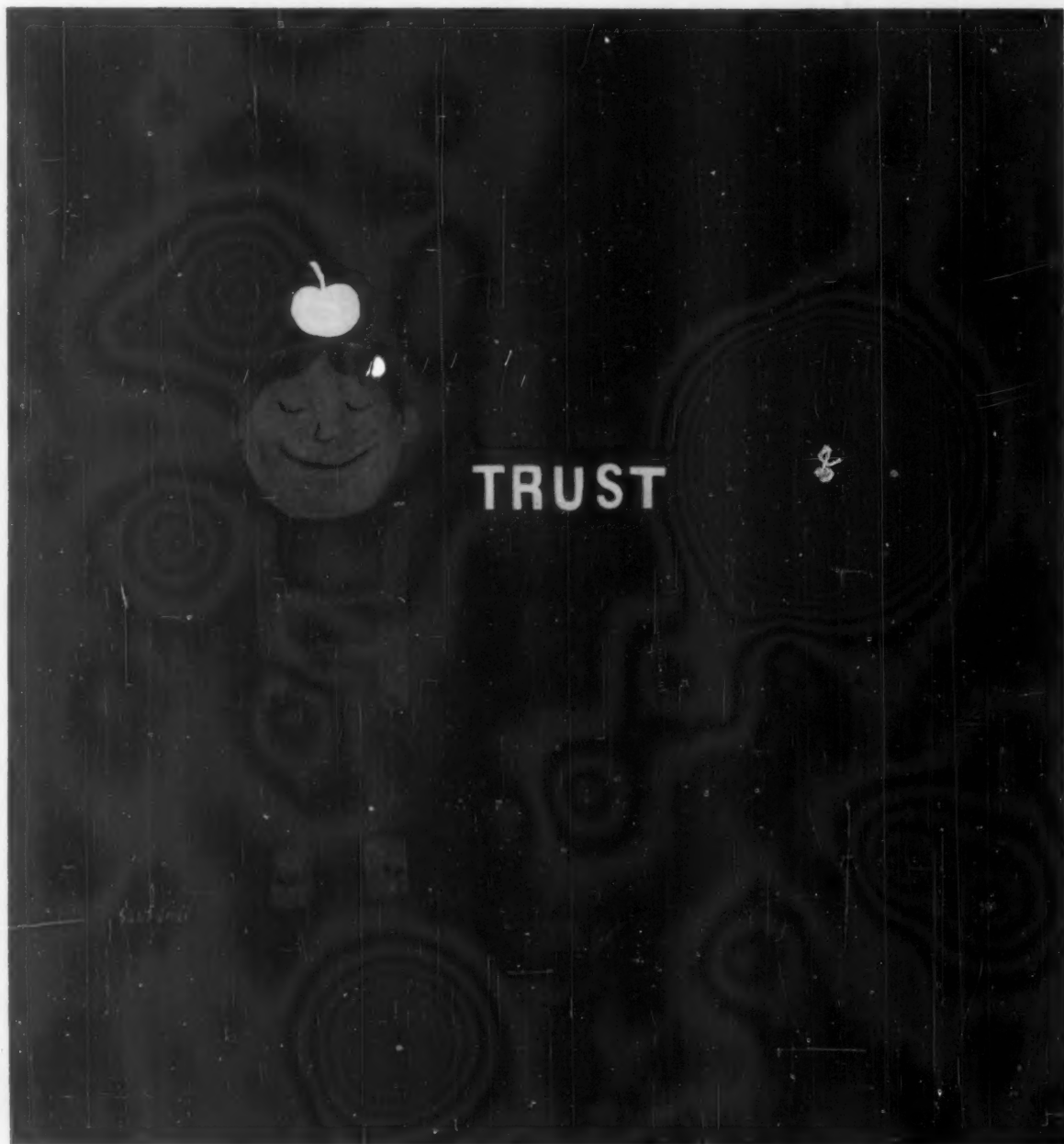
SEND FOR BROCHURE:
"WHERE ARE THE DECISION-
MAKERS IN THE PUBLIC
SCHOOL MARKET?"

AMERICAN SCHOOL BOARD JOURNAL

400 North Broadway

Milwaukee 1, Wisconsin

Sales Management December 16, 1960



In the Greater Philadelphia market, The Evening and Sunday Bulletin is a trusted family friend, invited into the home day after day.

The pages of this newspaper reflect the character, desires and spirit of its readers. The Bulletin and the people of Philadelphia understand each other.

What does this mean to advertisers? It means that, in the growing seven billion dollar Greater Philadelphia market, your sales message in The Evening and Sunday Bulletin enjoys a unique and extra "bonus"...

You buy belief when you buy The Bulletin!

THE PHILADELPHIA BULLETIN

A member of MILLION MARKET NEWSPAPERS, INC.

Advertising Offices:

New York 17, 529 Fifth Ave.; Chicago 1, 333 N. Michigan Blvd.; Detroit 2, New Center Bldg.; Los Angeles 5, 3540 Wilshire Blvd.; San Francisco 4, 111 Sutter St. **IN PHILADELPHIA NEARLY EVERYBODY READS THE BULLETIN**

Optimism for Durable Goods

There's no point in trying to kid anyone into thinking that this year has lived up to the rosy expectations held for the first year of the "Soaring Sixties." But just as the optimism of many businessmen was dashed by a profit squeeze, if not by declining sales, much of the pessimism about the future is unwarranted. Certainly the chances are better that the decade will turn out to be the **soaring sixties** than that it will go down in history as the **slipping sixties**.

But let's take a closer look. What about 1961?

The very fact that profits are being squeezed, that they are off much further than are sales, is an optimistic fact, for it means that plants must be modernized, that new equipment must be purchased, that every advantage must be taken of the frontiers that have been opened through electronics and automation.

The primary reason why we are being undersold in world and domestic markets, especially by Germans and Japanese, is not nearly so much due to lower wages paid for labor as to the fact that, largely speaking, those countries had to start from scratch at the end of the war. They had to build new plants, install new machinery, and they didn't re-build in the sense of merely rebuilding the old: they took advantage of every new development and device, many of them developed under the pressure of war. In industry after industry they are truly modern, while we are semi-modern.

So it isn't surprising that the McGraw-Hill forecast for capital goods expenditures points to a continuation of the high level we have been enjoying, or that a survey made by Dun's Review among 1,480 executives shows that manufacturers of durable goods expect their chances for an increase in new orders to be better than do the makers of non-durables.

What You'll Find in This Issue

Both Presidential candidates expressed dissatisfaction with the nation's rate of growth, and the campaign pointed up the general public's concern with the decisions of businessmen. If we are heading into, or are in a recession in some lines or areas, when will we commence to get out?

The political climate of the times provides a new sense of urgency for a feature on this subject that would be pertinent to sales executives at any time. The lead article in this issue is "How We Spot Turning Points in Business," and in it we draw upon the experiences of the professional economists on the staffs of Du Pont, Armstrong Cork, Procter & Gamble, Koppers, and 12 others.

These economists name the half-dozen or so factors which they rely upon in making their own judgments of economic conditions as they affect the nation as a whole, their industries and their companies. Some of them will be applicable to your business. You will find them helpful in making your judgment on the near-term (3 to 12 months).

While all of us are under pressure to handle the day-to-day operating problems we also must find time to take the longer view, which sometimes means looking back a decade to see how our progress matches that of the economy as a whole, and how our competitive relationship may have changed. We may show a 50% gain, but if the industry of which we are a part has doubled, we shouldn't indulge in self-congratulations.

You will find especially helpful the "Rate-of-Growth Analysis of 801 Leading Corporations," a study made exclusively for Sales Management by Value Line Investment Survey. The study shows rate of

FACE TO FACE



Talk to influential hospital buyers face-to-face at the American Hospital Association's Annual Meeting and **HOSPITAL MERCHANDISE MART** in Atlantic City, September 25-28, 1961.

MEET THESE BUYERS . . . in an ideal product-demonstrating atmosphere.

DISPLAY YOUR PRODUCTS . . . with the more than 400 major companies that find it profitable to exhibit at the nation's largest hospital show.

SHARE IN SALES . . . in a market that spends more than \$2.5 billion in annual purchases of supplies, equipment and services.

Over \$1 billion in new hospital construction estimated for 1961 means greater opportunities to establish yourself in a market showing undiminished growth characteristics.

Exhibit Manager
Hospital Merchandise Mart
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Chicago 11, Illinois

Please send complete information on exhibit opportunities at the Hospital Merchandise Mart

Name _____ Title _____

Company _____

Principal Product _____

Street _____

City _____ State _____



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Recommended...specified...
approved...requisitioned. These
are typical buying actions taken
by industry's top buyers after
consulting manufacturers' catalogs
in Sweet's. These catalogs give
buyers and specifiers the
product facts they must have
when buying needs arise. More
than 80 buying-action studies
in six basic industrial and
construction markets document
the buying activity a catalog in
Sweet's can produce for your
product. Your Sweet's District
Manager will gladly review the
results of these studies with you.
Sweet's Catalog Service, Division
of F. W. Dodge Corp., 119 West
40th St., New York, N. Y.

growth since 1947-49 arranged by 47 industry groups, compared with growth of the Gross National Product, and the 10-year average return on net worth.

The decade ahead promises to see an ever-wider acceptance of the SIC (Standard Industrial Classification) codes, first developed by the Federal Government in 1939, and recently revised, to secure comparable data from industry.

By means of SIC it is now possible for many industries to classify their customers and prospects. In this issue are a number of articles with special appeal to three groups: (1) the manufacturer who knows little about SIC but who wants to "get his feet wet" in applying this system of identifying markets, (2) the manufacturer who is well started on using SIC but is ready to enlarge his knowledge, and (3) the sophisticated user who is anxious to trade ideas on SIC.

Much of the pioneering in industry that has led to the ever-increasing application of SIC has been accomplished by business publications. It is in recognition of their dedicated work that we have asked six publishing houses, whose publications range across industry, to describe the benefits of the SIC system, and to point out fresh areas for development. You will find their recommendations on "How to Apply and Use SIC Data" on page 61.

For a variety of ways in which SIC codes are being used today you will want to study—and have your advertising and market research managers study—the "16 Case Histories on Use of Plant and Employment Data," beginning on page 40.

The cases detail how SIC is invaluable in identifying prospects, determining potential, establishing sales territories, setting up sales quotas, and reveal a relatively new and immensely significant trend—the use of SIC data in selection of media.

You can check your problems with those of such companies as Westinghouse, Norton Co., Greenfield Tap & Die, Vickers, Handy & Harman, Superior Tube, Foote Bros., and Cambridge Wire. Marketing executives in these companies are enthusiastic about the benefits they find in SIC.

► The SIC material in this issue is designed for use by both the long-range planner and the operating executive. For example, if you are interested in checking the degree of change in each of the 450 industries now classified by a 4-digit SIC number, turn to the article on page 112. Here Peter B. B. Andrews, with the help of 314 experts, shows both employment figures and value of products shipped for the years 1960 vs. 1958, and percent of change 1960 vs. 1947.

The executive concerned with locating prospects today will find highly practical help in the 13 pages of a unique directory of "Major Plants and Employees by Metropolitan County Areas." This directory shows, for example, the identity, the number of employees and the SIC classification of plants employing 500 or more in each of the 450 SIC categories. In all, information is given on 4,661 plants. You can compare the number of your customers, and the combined total for customers and prospects, and determine the extent of your coverage of the markets to which you sell.

In December many decisions affecting 1961 sales plans will be confirmed. Decisions on many matters will also be kept fluid so as to capitalize on opportunities as they arise. Business is keeping a wary eye on inventories. This is one of the reasons Sales Management publishes every three months, as it does in this issue, the popular feature, "Advertising Weathervane," which provides excellent clues on the need for more advertising pressure. See page 54.

You should find this **Industrial** "Marketing on the Move" issue helpful now.

Phil Salisbury

Mr. Manufacturer:

Expand your distribution facilities with no capital outlay

No real estate investments, no payroll, no maintenance with AWA's *instant* warehousing service. No lease commitments, either. For flexibility and economy, public warehousing is the profitable answer. Investigate the AWA Pay-as-you-use Plan.

Write for Free Directory listing locations
and space availabilities to fit your needs

AWA 512 Members Offering
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Merchandise Warehouses
& General Storage Facilities
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Cuisine Exquise . . . Dans
Une Atmosphère Élegante



675 Park Avenue at 63rd St.
NEW YORK

Lunch and Dinner Reservations
Michel Témolaton 8-6400



Others may specify, suggest, recommend, request . . .
only the P.A. decides how much to buy from you!

Is your 1961 advertising schedule properly *balanced*?

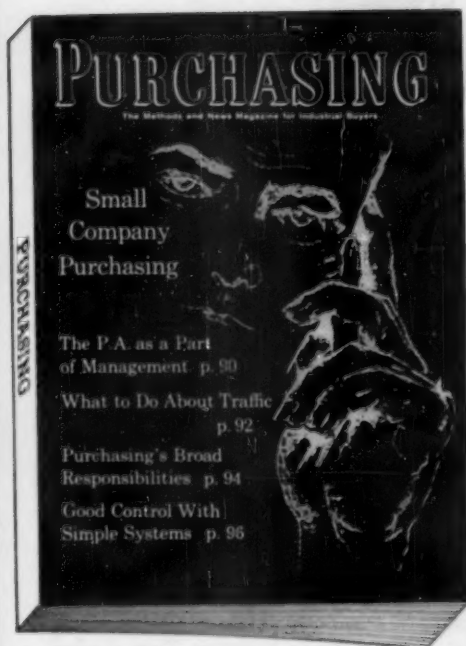
Today's industrial management, design, production and maintenance buying influences may specify, suggest, recommend or request that something be purchased. But it is the purchasing agent who has the power to select the actual supplier and the share of business he will get.

A *balanced* advertising schedule puts the P.A.'s buying power in its proper perspective in relation to the other buying influences. The P.A. can definitely help you achieve your sales goal in the year ahead.

The one publication that reaches the P.A. on his home grounds . . . that is read and respected by P.A.'s in every industry . . . is PURCHASING Magazine, the logical choice for balancing your 1961 advertising schedule.

PURCHASING is a magazine with stature . . . the unquestioned leader in its field. Its pages lend prestige and authority to your advertising message. Very few magazines in the world so successfully back up your advertisements with such a rich editorial content aimed directly at the specialized needs of their readers.

Get the P.A.'s buying power in *perspective* . . . get your advertising program in *balance* . . . with a regular schedule in PURCHASING Magazine—delivering over 30,000 copies starting Nov. 7.



PURCHASING

MAGAZINE

Sells the man who buys

RPA A Conover-Mast publication 205 East 42nd Street, New York 17, N.Y. **CCP**



Selling Is Not for the Birds

Salesmen, relax: Birds are not going to take over your jobs.

For a while, recently, it was touch and go as to whether our feathered friends would supplant salesmen. And it was Interstate Steel, of all companies, that entertained the theory that pigeons could take orders just as well as men. Here's what happened: Interstate launched an experiment—and seven pigeons—around the Midwest to see if the procedure involved in getting sales orders back to the main office might be strictly for the birds.

► If you can stand another pun, the idea laid an egg. But the pigeons, looking a little buffeted, made it back to Chicago.

Interstate told us about it, dropping puns in what we thought was an entirely frivolous way. "We wanted to find out if a company could feather its nest by counting on pigeons to bring in the orders," said Interstate's president, Howard R. Conant. "We egged our customers into letting pigeons deliver the messages in order to find out whether or not this was a flighty idea."

He didn't say it, but we will: Interstate had to pigeon-hole the idea.

"We have discovered," continued Conant, "that it is faster and more efficient to have our salesmen continue to bring in their own orders."

The theory wasn't bad. Interstate got purchasing agents in seven Midwestern cities to send pigeons winging

back to the company's main office in Chicago. Simultaneous take-off points were Milwaukee and Beaver Dam, Wis.; Kalamazoo, Mich.; Rockford and Bloomington, Ill.; and Newton and Boone, Iowa.

Orders for steel which had been placed with Interstate were in capsules attached to the pigeons' legs. Interstate discovered that pigeons were too flighty to be entrusted with important sales orders. All seven got back to Chicago but some were as much as two days late. No one had done enough research to ascertain that no pigeon will stand for a fly-by-night operation. When it gets dark, pigeons settle down for the night. Even allowing for the fact that pigeons get up with the birds, there's a sag in the schedule.

► Nor did Interstate realize that pigeons refuse to fly over water. They go around it.

Conant assumed that one bird would take the direct route from Kalamazoo, down the Kalamazoo River to Lake Michigan and across to Chicago. Not a bit of it. The bird which had that route did the whole trip over land.

"Such delays and uncertainty could be damaging to Interstate," said Conant, looking worried. "Even though it seemed sure the pigeon would bring the order to us eventually, the suspense could cause our customers to wonder and worry. Even more important, many of our customers place

rush orders. If a purchasing agent requests immediate delivery, he does not want the whim of a pigeon to determine how long it will take the order to get to us."

It was a terrible letdown for Conant. The quixotic behavior of his pigeons knocked the props from what had been the main argument in their favor—that no pigeon worth his coo ever stopped in at a bar or came up with lame excuses like broken-down cars, late trains, or lack of airplane reservations.

"Some of our pigeons took so much time getting back here," he added, "that they might as well have spent the time in a bar, for all the help they were to Interstate. They checked in sober, but that's small consolation for their slowpoke approach."

He's really relieved that it's all over, because all sorts of hazards inherent in having pigeon messengers keep coming to his mind. Suppose, he muses, the competition took to shooting down his sales orders? Or a siren-type girl pigeon batted her wings at one of his messengers?

"We never intended to replace our salesmen completely," he weasles. "We knew we would need them as salesmen. When a purchasing agent has some questions about our steel, he wants to hear something more substantial than 'coo.'"

So, he insists, he's delighted that none of his two-legged, non-feathered salesmen flew the coop during the experiment. ♦

NOW...

in the Detroit Market
advertisers get



NOW... in one greater-than-ever evening newspaper, readers of The Detroit News and former subscribers to the Detroit Times get all the regular News features plus the best of the Times features, too.

NOW... through this one bigger-than-ever Detroit NEWS, advertisers can sell Detroit's mass market more thoroughly and more economically than ever.

NOW... one newspaper does the work of two for you! This greatly-expanded, one and only evening newspaper gives you ALL THE DETROIT NEWS CIRCULATION ... PLUS!

NOW, IN DETROIT, ALL YOU NEED IS THE NEWS!

The Detroit News

INCLUDING BEST FEATURES FROM

Detroit Times

New York Office: Suite 1237, 60 E. 42nd St. • Chicago Office: 435 N. Michigan Ave., Tribune Tower • Pacific Office: 785 Market St., San Francisco • Miami Beach: The Leonard Co., 311 Lincoln Road

Sales Management December 16, 1960 13

HOW WOULD YOU LIKE 47,000 New Customers EVERY DAY OF THE WEEK?

Average net paid circulation of the evening Journal-American increased 47,000 for the 6 months ended September 30, 1960!

Plus . . . 33,000 new families on Sunday.

The Journal-American's weekday figure now tops 618,000. On Sunday it's over the 812,000 mark.

This probably is the greatest circulation progress story of any newspaper in the United States.

You will want to consider these vital Journal-American numbers to get the most for your advertising dollar.

NEW YORK
Journal-American

Represented Nationally by Hearst Advertising Service Inc.

THE WEEKDAY JOURNAL-AMERICAN HAS.. MORE WOMEN READERS

A total of 750,000, or 250,000 MORE than the second evening paper.

MORE MEN READERS

A total of 710,000, or 190,000 MORE than the second evening paper.

MORE READERS IN CAR-OWNING FAMILIES

A total of 950,000, or 240,000 MORE than the second evening paper.

MORE READERS IN FAMILIES HAVING INCOMES OVER \$5,000

A total of 1,070,000, or 230,000 MORE than the second evening paper.

MORE READERS IN FAMILIES WITH CHILDREN UNDER 15 YEARS

A total of 670,000, or 250,000 MORE than the second evening paper.

Source: N. Y. Daily News "Profile of the Millions"

If your product can be ...

BRUSHED

SQUEEZED

SPRAYED

POURED



...aerosol packaging may be
more profitable for you

Does your product meet the requirements above? If so, there's a good chance aerosol packaging can revolutionize your sales as it has for manufacturers of hair fixatives, insecticides and many other products.

Aerosol packaging offers customers the neatest, quickest, handiest way ever to apply a product. Result—aerosols are increasing their share of the consumer market every year.

Get the complete story. It's easy to have your product tested by a custom loader—no need for your own loading

line. Let Du Pont send you technical data and the names of aerosol loaders. It's one of the many services offered without obligation by Du Pont, manufacturer of time-proved "Freon" propellents for aerosols.

FREE BOOKLET, "Package for Profit", contains information on how you can enter this field without major capital investment . . . includes marketing and technical data. For your copy, write: E. I. du Pont de Nemours & Co. (Inc.), "Freon" Products Division, 2420N-5712, Wilmington 98, Delaware.

Best-selling aerosols are powered with

FREON[®]
PROPELLENTS



BETTER THINGS FOR BETTER LIVING...THROUGH CHEMISTRY



How to win local markets—anywhere

Olivetti Machine Tools decided to sell its precision-built machines in the United States. This move set up a problem, for this Italian-based company has to convince prospects that they can get *fast and dependable parts service*.

"The first thing prospects want to know about is the availability of parts," said Mr. Peter A. Blum, U. S. manager of the tool division of world-famous Olivetti. "We tell them we maintain a basic supply of parts in our New York warehouse, and this supply is kept up by a steady flow of shipments from Italy by Emery Air Freight."

"Then they want to know how quickly they can get replacement parts from our American stocks to keep

costly 'down time' in their plants to a minimum. Our answer is: we distribute parts from New York *overnight* to our customers anywhere in the United States by Emery Air Freight. And the fact that they can rely on this fast air freight service clinches the sale for us.

"Emery Air Freight is one of our strongest points in selling prospects and keeping them as customers. And another point, Emery helps us keep inventory costs to a minimum."



EMERY AIR FREIGHT

801 Second Avenue, New York 17, N.Y. "EMERY—Worldwide Blue Ribbon Service"

The Heat Is on Prices Again

As if the salesman doesn't have enough troubles, word is in that good, old-fashioned **price pressures** are building up to nightmare levels.

For quite some time, purchasing agents have been putting the **value analysis** squeeze on salesmen. Demands for more and better **services** have led to marketers' assuming more and more of the customer's traditional service, inventory and even research expenses. Unit price has been secondary to **total cost** with most astute purchasers. And salesmen (and indeed entire marketing departments) have been responding beautifully by offering faster and more accurate deliveries, cost-cutting cooperation, greater numbers of tailored products.

The object has been this: The famous profit squeeze has given purchasers a once-in-a-lifetime opportunity to prove how vital they are to the corporate scheme. Playing "a penny saved is a penny earned" to the hilt, they have been making the most of their opportunity to carry their companies through the lean profit years.

But the same company that has a purchasing agent has a marketing department. It has been subject to similar value pressures from its customers. So far, the profit picture has just continued to look bleaker. And the need for remedies appears more urgent than ever.

So the purchasing agents are apparently tightening the thumbscrews. Although pressure for more services (and hence greater values) continues uninterrupted, the **price tag** is being singled out as a most fertile point for **improvement**.

And it's not all a matter of telling salesmen to "sharpen their pencils" and lower their quotes, either. Rather, a wide variety of devices are being employed to crack suppliers' prices. Basically, the attitude can be summarized like this: "Traditional buyer-seller relationships must go by the boards.

We're doing everything we can to present our story to as many potential suppliers as possible. In some cases we will find new suppliers with lower prices. Even if we don't, this technique gives us a **club** to hold over our present suppliers."

Here are just a few of the ways purchasers are implementing their crash programs on price:

- Where only one logical source of supply exists, buyers are approaching other companies and attempting to "sell" them on the idea of producing the product. In this way, they hope to create a more **competitive** situation.
- Specific cost reduction **percentages** are being handed out as quotas for purchasing agents. These may be based on careful calculation, but are far more likely to be a bit arbitrary. With a quota and a date to make it by, the buyer has little desire for discussion. He must make the moves that result in the **greatest savings fastest**: price pressure. And he might even be willing to take a chance on quality to get his price.
- Similarly, large purchasing operations are being divided up into "**specialist**" areas; different buying operations are singled out as those with the greatest **savings** potential, and these are assigned to different individuals. Once assigned a target area (which often involves only one supplier), the purchaser's task is to live with that situation until every conceivable saving has been realized. Price, of course, plays a leading role.
- Buyers are in some cases actually baring their souls to potential suppliers and inviting cost reduction aid. Some are sending out letters explaining various parts of the company's manufacturing operation, including some details of production and prices paid for materials. Aid is requested in the form of **suggested efficiencies** or **lower price offers** or, preferably, both. Another even less subtle

technique is to put a variety of items purchased by the company on **public display**, perhaps in a reception room or building lobby, price tag each article, and post a sign saying that the company is trying to do better.

There is one thing prevalent in all of these moves: the purchaser's unwavering assumption that somewhere, somehow, **everything** can be gotten a little cheaper—even if it means breaking with traditional suppliers.

Price Scandals Hurt, too

It is worth mentioning that purchasers have a strong argument to use on salesmen in a number of big industries. These are the industries that have been, or are, or soon may be, in **hot water** with Uncle Sam for price collusion on Government bids. Among these are the electrical equipment industry, steel, chemicals, aluminum wire and cement. If nothing else, such scandals give purchasers a perfect excuse for demanding lower prices based on a "what-do-you-mean-you-can't-go-lower-and-still-make-money?" attitude.

In addition to these **competitive** play-one-against-the-other price pressures, another pressure is developing within the customer company itself. With production facilities being upgraded to operate more **efficiently**, and with many industries operating at considerably **less than capacity**, engineers are re-evaluating their ability to profitably make more of the components and parts that are now purchased outside. If a supplier's price can be beaten or even matched, the purchasing agent has the **biggest price club** of all.

Fortunately, this renewed price pressure probably **won't continue** too long. There can be no doubt that it is spurred by the profit slump, which should ease before long. As the economies and efficiencies instituted at some cost this year begin to take hold, and as business in general begins to pick up in a few months, profits should begin to look much better. Then, purchasing pressure will probably **revert** to a service-oriented value analysis proposition.

But even though the squeeze on prices may be **short lived**, and even though it may just be **spotty** or felt in varying degrees by different industries, it is more than a field sales problem. It requires some **top-level** sales management decision making.

Most sales managers will, at this point, probably prefer to **risk losing the customer** rather than cut the price. Their own profits are weak enough to keep them from making any more sacrifices. They know that once the price is lowered, it's a full-scale fight to ever get it back to normal. Experience has taught them that if word gets around that their price structure has cracked, they get no peace until prices are lowered all along the line. And most of all, they know that if they lower their prices, so will their **competitors**, and the whole run-around will begin again, only at a less profitable level.

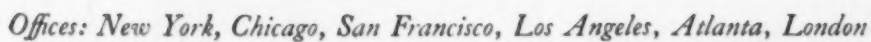
Sales Manager's Choice

The sales manager must choose the approach that best suits his particular company and his industry. He will probably decide that his competitors' customers may be getting a little dissatisfied, too—and launch a drive for new accounts. He might also decide to start emphasizing those products that have not been hit by price-cutting demands. Whatever course he selects for his sales effort, he must realize that it will probably be short-term action with far-reaching effects.

Of course, no sales manager will want to lose existing accounts. But chances are that keeping an account in the face of heavy price pressure is largely a matter of the salesman's own dexterity. He may squeak through by re-emphasizing the quality story. Or, like one salesman we know, he might choose to inform the purchaser that "our prices will definitely be lower by the time you are ready to re-order in July," and then hope like hell that his customer is plagued with a short memory.

And our friend might get away with it, because by summer the better business weather should be pushing price back into line with service and quality as only one of several things to consider in making a smart buying decision.

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ANNOUNCING . . .

A National Frequency and Volume Discount for Los Angeles Times Advertisers



The Discount Plan
also applies to The
Los Angeles Mirror

ANOTHER FORWARD STEP . . .

The Times is pleased to announce that beginning January 1, 1961 a National Frequency and Volume Discount will go into effect for advertisers on a 26-week contract. This means that the west's leading advertising medium—over and above its many present advertising advantages—now offers another very substantial reason for using The Times as a basic medium in the great Los Angeles marketing area.

FLEXIBILITY FOR ALL ACCOUNTS . . .

A major advantage of The Times' new Frequency and Volume Discount Plan is its unique flexibility which builds on the inherent flexibility of the newspaper medium.

Here is a discount structure which enables you, the national advertiser, to truly coordinate your advertising and sales efforts and provide impact when you need it most . . . during model changes, introduction of new products, seasonal demands and other periods of special importance in your business. The size of your ad, the frequency—these can be varied to meet the sales needs of your advertising schedule.

The new plan applies to advertisers in any category who place 6 or more insertions and run 6000 or more lines in The Times during a 26-week contract period. The discounts range from 2% for minimum performance to 15% for a schedule of full pages.

For complete details contact Los Angeles Times, Los Angeles 53, California, or Cresmer & Woodward, Inc., New York, Chicago, Detroit, Atlanta, Los Angeles, San Francisco.

MORE THAN EVER—IN THE SIXTIES—IT'S THE LOS ANGELES TIMES—THE WEST'S LEADING ADVERTISING MEDIUM

A NEW KIND OF PACKAGE COMBINES TRAY AND BOX...



If the package you need doesn't exist, St. Regis can create it. That's how **TROX**, the new tray-box, was born.


Happy Pet Products, Inc., the makers of *Tidy Cat*—hygienic, absorbent clay—had been selling their product in bags. But the Crowell Carton Division of St. Regis designed an ingenious new functional carton that quickly and easily converts to a tray twice its original size. Now product and package are

virtually one, and the age-old problem of cat sanitation has been made lots simpler for countless satisfied customers. (And countless contented kitties.)

TROX is the kind of novel development that offers something "extra," and has tremendous sales appeal. You can count on Crowell not only for original package design, but for imaginative selling ideas, too. From Crowell, the best is yet to come! Isn't there some way we can serve *you*?

Crowell offers complete packaging services for folding cartons . . . metal-edge dispensers . . . METLSTAY packaging.

Crowell Carton Company • Division of
Marshall, Michigan

St. Regis 
PAPER & COMPANY



ART LINKLETTER'S HOUSEPARTY

To millions of listeners, the liveliest Art is Linkletter. His zany stunts, surprises and conversations with kids (who say the darnedest things) make Houseparty a bright spot in the day for housewives. And as for sales, nobody livens them up like Art Linkletter. In all radio, Art Linkletter is the kind of company you keep

**ONLY
ON CBS
RADIO**

-SM- MARKETING

SALESMEN USE RADIO CARS

Lake Tahoe, Cal.—With all the high-powered developments in communications these days, it's not surprising to see real estate salesmen running around in radio cars. Tahoe Paradise Homes, with 40 salesmen selling 1,600 acres, solved some curious problems with the use of 2-way radios. Activity was often so frantic that two different salesmen unknowingly sold the same plot to different customers. Now salesmen hear of the sale of a piece of property minutes after the transaction and cross the plot off their list.

CHRYSLER REBUILDS

Detroit—The automobile manufacturer's long neglect of the promising rebuilt parts market is over. Chrysler Corporation's Mopar Division will market a complete line of rebuilt automobile and truck parts from engines to oil pumps. The industry has been beckoning the bigs for years with such tempting statistics as \$250 million in sales in 1958 (a 20% increase over 1953) and estimates of \$300 million by 1965.

While Chrysler's program is the most ambitious so far, the company is actually not first to enter the field. The Ford Motor Co. program allows independent remanufacturers to rebuild parts to the company's specifications and to deal directly with Ford dealers in their respective areas. Chrysler's independent remanufacturers will make a more complete line and will deal with the company's 115 wholesale distributors, thus taking advantage of the big company's distribution set-up.

RADIO GOES INTERNATIONAL

New York—With so many magazines boasting international circulation, it was only a matter of time before other media followed suit. Metropolitan Broadcasting Corp. recently completed transactions for its purchase of WRUL, an old international station, which it will call Worldwide Broadcasting. Around since 1931 when it was started as a non-commercial venture, WRUL later accepted a limited number of commercials but was never a big sponsor-getter. Metropolitan's beefing-up process will pump energy and money into the station's sales

efforts, add to its present multilingual staff and enable it to do a great deal more broadcasting.



BOON TO AIR FREIGHT

Montreal—The world's first turboprop, swing-tail cargo airplane is in the air. Canadair, which has been talking about it for some time (see SM April 15, 1960, p. 34), launched the Forty Four cargo plane on its first engineering test flight last month. A unique feature of the new plane is its hinged tail-section which swings open for easy, straight-in loading.

ROOT BEER TURKEYS

Philadelphia—Faced with increased competition from non-carbonated soft drinks (ades, etc.), Charles E. Hires Co. is eagerly searching for new ways to use its root beer. The company recently hired a noted home economist to develop recipes and food combinations utilizing the beverage. So far she has come up with turkey basted in root beer, cherries steeped in root beer and root beer flavored gelatin desserts.

BIGGEST BUDGET YET

New York—Let others cut costs by reducing ad budgets. Hertz Systems, Inc., is spending \$7½ million on its 1961 program, 15% more than last year, and the largest amount ever spent by a car rental company. Its 60- and 20-second spot announcements on TV alone will cost \$2 million.

DOUBLE EXPOSURE

Port Chester, N.Y.—Insurance that readers exposed to an ad will expose themselves to the product is provided by Royal McBee Corporation's Life giveaway ad. It features a lucky num-

on the MOVE

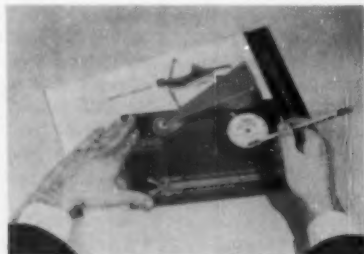
ber card (a different number in each copy) which the reader must take to an authorized dealer to have checked against a register list of winning numbers. If the number is really lucky, the reader receives a Royal Futura portable typewriter free. Over 6 million subscription holders should be calling on Royal dealers; those who don't win may stay to buy.

CHRISTMAS SEAL TWIST

Lansdowne, Pa.—In a sense Christmas seals have always been advertising media, but no one ever expanded on the idea. Now the Minipix Co. is making full-color stamps that travel free on letters, bills, envelopes, circulars, etc., and carry an advertising message. Good for year-round use, the stamps are available in three sizes and cost from $\frac{1}{8}$ c to 2c. Some of the users of the stamps: Bell Telephone for its new Princess phone, Guatemala to the tourist trade, and Lillian Farmer, a model, who uses them to advertise herself.

PR BECOMES A PRODUCT

New York—Getting double mileage out of its public relations department, General Dynamics Corp. has written a book that sells at \$20 a copy to the general public. Handsomely bound and illustrated, the 420-page volume tells the story of GD and its predecessor divisions in the context of American history. The book is published and distributed by Doubleday & Co.



DESK-TOP ROSTRUM

New York—Not satisfied with sending promotion phonographs by mail, Talon, Inc., sent along the phonograph in the mailing piece. Part of a big promotion drive behind the company's new Zephyr, a nylon zip-

per that comes in various colors, the cardboard record player is being sent out to clothing manufacturers and retail stores. The idea is that when a pencil point is placed into a hole in the record and rotated, the zipper on the card "speaks for itself."

NO JOBS FOR HUMANS

Houston—As if substituting pigeons for salesmen (see p. 12) and plant mechanization weren't enough, Superior Furniture Manufacturing Co. is replacing human workers with chimpanzees. Marketers correctly lay much of the blame for the profit squeeze on the high cost of labor. But, the company's plan to substitute two chimps for one human worker on those simple but boring assembly line operations seems a pretty drastic solution. Of course, the fact that the plant manager has written a book about a factory saved from bankruptcy by a labor force of chimps may have a bearing on the new hiring policy. He's still looking for a publisher.

LOOK AT YOUR MEDIA

New York—For what is probably the most objective study of the circulation and rate trends of some 61 ABC-audited consumer and farm publications, consult the Association of National Advertisers, Inc., report. The recently published study covers the years 1940 to 1959 and will cost non-members of ANA \$15.00 a copy. The report covers such important factors as: cost per page per thousand circulation; circulation rate basis and page rates; average paid circulation and proportionate use of various circulation methods.

INCREASED SHELF LIFE

New York—A switch from cellophane wrapping to a foil laminated overwrap increased the freezer shelf life of seafood for Continental Seafoods, Inc. The company changed the packaging on its Langosti seafood several months ago and reports favorable results.

SECRETARIES BEWARE

Kyoto, Japan—Secretaries are given fair warning that they may become expendable in the near future. A



GUNSMOKE

Gunsmoke shattered the mold of the old-fashioned Westerns forever. Since it originated eight years ago on CBS Radio, it has been the prototype of the adult Western and a smash hit with listeners and sponsors. Gunsmoke offers advertisers a sales setting that triggers audience action. In all radio, Gunsmoke is the kind of company you keep...

**ONLY
ON CBS
RADIO**

when the occasion



calls for **MOVING...**

(OVERLAND OR OVERSEAS)

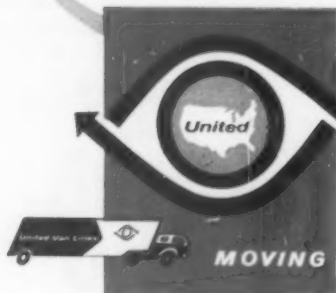


call **United**

Europe . . . South America . . . the Far East . . . wherever your company operates, whatever it moves—families, costly or delicate equipment, displays and exhibits, office furnishings—United's world-wide network of Agents will move it safely, swiftly and dependably.

United's "Pre-Planned" service makes moving to the far corners of the earth as easy as moving across town. You're relieved of time-consuming details, assured of safe, "on time" deliveries where and when you want them.

So when the occasion calls for moving . . . call the friendly United Agent (he's listed under "MOVERS" in the Yellow Pages) or write for the colorful booklet describing United's world-wide moving service.



**United
Van Lines**

INTERNATIONAL HEADQUARTERS, ST. LOUIS 17, MO.

MOVING WITH CARE EVERYWHERE®

MARKETING

on the Move

(continued)

voice typewriter was recently demonstrated by scientists of Kyoto University's Engineering Department to visiting members of the World Acoustic Society. The electronic typewriter is said to be capable of writing words in combinations of consonants and vowels and more than 100 monosyllables. Since it types only in romanized Japanese, the threat so far is only to Japanese typists.

MOWERS FOR STUDENTS

Waukegan, Ill.—The high school student market will be exploited by of all things—a power mower manufacturer. Outboard Marine Corporation's Lawn-Boy Division, through a program entitled Lawn Boss, stimulates high school students to earn extra money during summer vacations by mowing lawns. The company provides enterprising young lads with caps and shirts (complete with company insignia), receipt forms, accounting record books and promotional material. The hitch: In order to qualify for the program, all a student has to do is buy a Lawn-Boy mower. He can pay cash or buy it through local dealer financing called Student Income Loans.

ARTIFICIAL OBSOLESCENCE

Chicago—While he may be guilty of a little dead-horse beating, Maytag Company's president, George M. Umbreit, was nonetheless accurate in his description of artificial obsolescence as a deterrent to customer satisfaction in the appliance industry. In a keynote address to the eighth annual industry-wide Parts & Service Conference, he pointed to his company's 53-year-old policy against artificial obsolescence and gave several reasons why others should follow Maytag's example. "Annual model changes shake up manufacturing processes, and new models every year will obviously lead to customer servicing problems."

THE PROPER BALANCE

New York—How much of the advertising dollar should be spent on creating product awareness and how much on building a favorable attitude? Richard Cullen, general sales manager of the Ladies' Home Journal, raised the question in a recent talk. He pointed up the four learning



"Now we can train new salesmen with movies anywhere, any time...in just an hour"

"Our training movie provides trainees with more thorough comprehension of our way of selling than training manuals ever did, and it's less expensive and more efficient than traveling training experts," says T. O. Kaplen, Executive Vice President of Atlas Sewing Centers, Inc., headquarters, Houston, Texas.

"It works so well that we've given each of our 65 store managers a 16mm Kodak Pageant Sound Projector so that any one of them can train new men when they want to.

"Our choice of projector, we knew, would be important, because store managers, like everyone else, are too busy to worry about machinery that's complicated to operate or too much trouble to keep in running order. After many 'loaner' demonstrations of various makes, and

after asking others who use movies, we decided the Kodak Pageant would be easiest to operate, and would have the stamina to take inexperienced handling.

"Our movie was professionally produced. And it, along with this uncomplicated Kodak Pageant Projector, makes a training session smooth, interesting, and understandable. The demonstration is ideal. The trainee sees and hears not only what to say and when to say it, but also how to say it, even to the proper inflection, emphasis, and gestures.

"None of the precisely worked out message is ever omitted or diluted. And outside pressures have no interfering influence. Our trainee is 'captive' in a darkened quiet room—the right atmosphere for concentration."

If you would like to learn more about the

way movies are being used by business and industry, or if you would like literature about Kodak Pageant Projectors, mail this coupon to us now.

You may see a Kodak Pageant demonstrated by calling your Kodak audio-visual dealer.

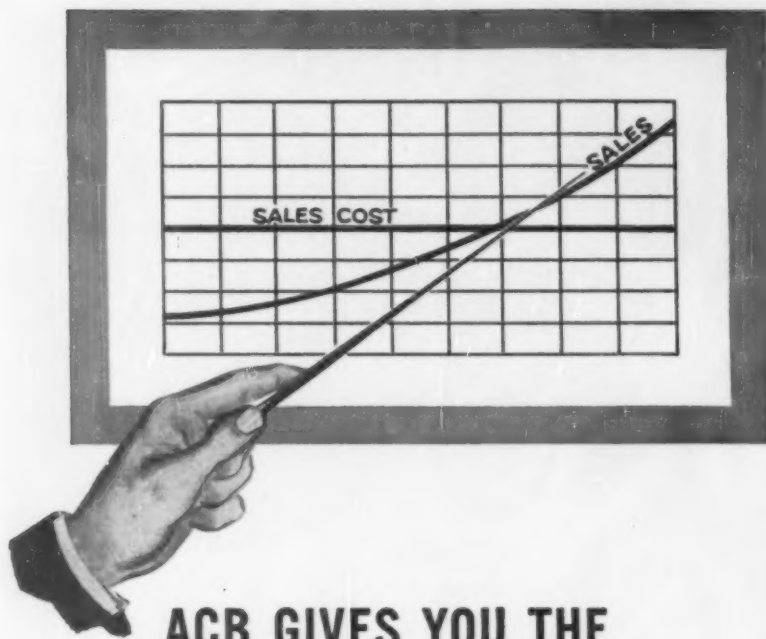
Kodak Pageant Projector
EASTMAN KODAK COMPANY,
Dept. 8-V, Rochester 4, N.Y.

Send me, without obligation, Kodak Pageant Bulletin, V3-22.

NAME _____
TITLE _____
ADDRESS _____
CITY _____ STATE _____
Zone

12-222

Kodak Pageant Projector > EASTMAN KODAK COMPANY, Dept. 8-V, Rochester 4, N. Y.



ACB GIVES YOU THE "grassroot" information YOU NEED FOR BETTER SALES AND ADVERTISING RESULTS

ACB Reports give facts on which decisions can be safely made

Into ACB's receiving rooms each day comes the nation's daily newspapers—their columns laden with $1\frac{1}{2}$ billion dollars yearly of retailer advertising plus $\frac{1}{2}$ billion dollars of national advertising.

The advertising columns are read and checked and processed into ACB Reports—each Report made strictly according to the user's own specifications! More than 1,100 progressive concerns use ACB Reports to alter or confirm their sales set-ups and advertising strategies.

As you study an ACB Report, clear-focus pictures of situations like these are framed in your mind.

... What's gone wrong with retailer support in Jensen's territory ... Competico is really advertising in the Atlantic States ... the price spread in Dallas seems wide ... why are we getting "skunked" in Tacoma ... The Emporium in Macon is doing a standout job with our mats ... our new man isn't bad according to this Report ...

Wherever a product is sold through retail stores, there is a need for ACB Research Reports. Kroehler Co., world's largest maker of furniture, a user of ACB Reports for more than 15 years, says:

"ACB service has been extremely valuable to us as a means for increasing the amount of daily newspaper advertising run by our dealers mentioning our brand name."

Send for Big Free Catalog

ACB will mail you its big catalog describing its 14 different services and cost of same. It's a 48-page book that should be in every sales and advertising department. In addition it contains a directory of all daily newspapers plus the U. S. Trade Census breakdown of 1,769,540 retail establishments! Send for it—it's free!

ACB reads every advertisement in every daily newspaper

ACB SERVICE OFFICES

353 Park Ave. South • New York 10
18 S. Michigan Ave. • Chicago 3
20 South Third St. • Columbus 15
161 Jefferson Ave. • Memphis 3
51 First St. • San Francisco 5



MARKETING on the Move

(continued)

thresholds through which good advertising must take the consumer: awareness of the product; knowledge of it; favorable attitude and desire to buy. Emphasizing the need for good advertising balance, he went on to say that TV creates product awareness more effectively than any other media, while printed matter imparts a more thorough product knowledge.

AD DRAWS TOO WELL

Houston—All marketers should have these problems. There's some speculation that the Houston Sports Assn. ad seeking future major league baseball players might draw too well. The ad appears in *The Sporting News* and cautions all prospective players to look into the association's offers before signing with another club. A similar ad run earlier for the Kansas City Athletics got such a flood of applications that the snowed-under club had to discontinue the ad.

MINIATURE FACTORIES

Dayton, Ohio—Want to bring first-hand demonstrations of product construction to potential customers' doorsteps? Follow the example of Dayton Tire & Rubber Co. Its salesmen carry portable tire-building machines and curing presses scaled down to one-twentieth the size of normal equipment. The machines make miniature tires on the spot at sales meetings, exhibits, and shows. The company raves about the success of the tiny tire builders as a sales training technique and as a public relations and sales promotion tool.

WILL YOU GET SPACE?

New York—Super market shelf space is at a much greater premium than it was six years ago. The point was brought out by a recent 13-chain study made by Chain Store Age recently. Of the 6,000 new items, brands and sizes brought out in the course of a year, 415 are added to today's shelves—and 355 old items come off the shelves. That means the total increase in the number of items on the shelves is 60. A similar study conducted in 1954 on eight chains showed 270 new items going on the shelves and 230 coming off—a total increase of 40 items.

Planned Packaging moves merchandise

Here's an artist who sells your merchandise

This man and many others like him on Packaging Corporation of America's technical staff devote themselves to *selling your products*. Cooperating with product development and production engineers engaged in constant improvements of packaging materials and methods of all types, they form a *creative team*. Under their skilled hands the container or carton is transformed into a colorful, appealing creation that works for you in transit, promotes its contents from shelves and counters, invites buyers to reach for it. Experimenting with color arrangements, with special inks and a variety of printing processes . . . theirs is a continuing quest for all the ways in which artful package exteriors can sell harder. Bringing this ingenuity to the design of your packaging is but one of countless ways in which Packaging Corporation of America's concept of Planned Packaging, implemented through integrated national facilities, produces better packaging . . . more sales. Whether your requirements are large or small, regional or national, we welcome the opportunity to help you.



Packaging Corporation of America

1632 CHICAGO AVENUE, EVANSTON, ILLINOIS

Cartons • Containers • Displays • Egg Packaging Products • Molded Pulp Products • Paperboards

Sales Management December 16, 1960 27

When Artloom Carpets telegraphs Macy's... *things happen fast!*

WESTERN UNION

LARRY NAGLE
MACY'S, NEW YORK

OUR PHILADELPHIA DISTRIBUTOR LIQUIDATING INVENTORIES.
WE HAVE APPROXIMATELY $\frac{3}{4}$ OF A MILLION DOLLARS AT
RETAIL OF FIRST QUALITY ARTLOOM BROADLOOMS TO SELL.
ARE YOU INTERESTED?

A J McDERMOTT, ARTLOOM CARPETS

WESTERN UNION

A J McDERMOTT
ARTLOOM CARPETS, PHILADELPHIA

DEFINITELY INTERESTED. WILL MEET YOU YOUR OFFICE 11 AM
TOMORROW TO CONCLUDE NEGOTIATIONS. BE PREPARED TO
MAKE SHIPMENT OF GOODS IMMEDIATELY.

LARRY NAGLE, MACY'S



BIG SALES STORY TO TELL? Things happen fast by telegram. Facts and figures are crystal clear and *in writing*. Busy companies like Macy's and Artloom save time and money using accurate, action-getting telegrams. And so will you!

Western Union...for action!

-SM LETTERS TO THE EDITORS

In planning this issue we checked with readers to see the extent of their use and understanding of SIC (Standard Industrial Classification). Here are some of their answers:

starting point in sales planning

In most of our market studies, we start with the "Census of Manufactures" and get the basic information on the industry in which we are interested. This may or may not find its way into the final report. As you know the 4-digit SIC classifications are rather broad for many marketing purposes.

However, the 4-digit level of aggregation does provide a starting point, and in many cases it is sufficiently detailed to provide a sound estimate of the size of the potential market.

LEE GUNLOCKSON

Director of Market Research
Carrier Corp.
Syracuse, N. Y.

performance vs. potential

... We use [County Business Patterns] for developing performance against potential for our distributor territories, and we also use them for aiding us in making up what we call our customer and prospect books. We have a book for each salesman which lists every customer and known prospect in his territory with the recommended number of calls for each. We cross-check this with County Business Patterns to be sure we have not overlooked any prospects.

CHARLES OLIVER

Technical Products Division
Corning Glass Works
Corning, N. Y.

new user

... We will just be starting to use statistics on number of plants and number of employees in our sales/advertising planning in the next few months.

JAMES E. BORENDAME

Director of Marketing
Fansteel Metallurgical Corp.
North Chicago, Ill.

verification of data

... We have still only used SIC data informally. The results pretty well verified our information from other sources concerning our percentage of acceptance to industries

which could use our product on an original equipment manufacturer's application.

MICHAEL J. MCCAUGHEY

General Sales Manager
Tuthill Pump Co.
Chicago, Ill.

a check on potential

... These statistics [on number of plants and number of employees] are used only indirectly to check completeness of our knowledge of potential users. It is upon this independently derived knowledge rather than on factoring these statistics that our sales and advertising planning is based.

K. S. LEWIS

Diamond Alkali Co.
Cleveland, Ohio

not yet, but . . .

... No, we do not use statistics on plants and employees. However, this doesn't mean that we shouldn't use these statistics.

CORMAN J. DIEHL

Advertising Manager
Wyandotte Chemicals Corp.
Wyandotte, Mich.

the more data, the better

We believe the release of a 7-digit code will go far toward promoting more accuracy in analysis. Despite company protests that such code refinement would reveal too much about their operations, it is felt that, in this age of mechanical delineation of markets, generalities have no place. Certainly, the more intelligence is acquired and published about national markets, the greater our chance of improving the economy.

One thing should be said in praise of persons in SIC-coded plants who respond to inquiries made of them continually by marketing research facilities like ours. It is constantly amazing to us, and greatly appreciated by us, to get such prompt and complete information. Despite constant harassment with mail, phone, telegraph and face-to-face questioning, plant personnel cooperate at least as well now as they did when survey work had just begun to become popular.

N. J. RODES

Senior Analyst
Commercial Research Division
Crucible Steel Co. of America
Pittsburgh, Pa.

This is a Scissor-billed Box-topper



**A bird in the hand
is still worth
you-know-what**

... it *still* costs less to keep a customer *sold* than to sell a new one.

Let us show you how to keep your customers sold—how to build business that repeats *and repeats*—with your own *customer engineered* premium plan.

Cost? You decide that. You pay for your individually-tailored premium service plan *after* you profit from it. Not before. Let us tell you more.

Write, wire or phone collect—
Atlas 8-9315. Dept. S-12

**The
Premium
Service Co. Inc.**

Founded 1897

SUBSIDIARY OF
THE CURTIS PUBLISHING COMPANY

195 North St., Teterboro, N.J.

Why the major shift

Something's happening in America that's beginning to have an influence on more and more media selections. It's the major shift in reading habits.

Today, more than ever, reading habits are motivated by the need to be and the desire to be informed. This can be seen by comparing growth rates of all types of publications available to the American people during the past decade.

Away out in front are the news magazines.

SHIFT IN AMERICA'S READING HABITS SEEN IN RECORD GROWTH OF "USN&WR"

(Circulation growth, 1948-59)*

"USN&WR".....UP **211%**

News and
Management Weeklies .UP.. **63%**

All ABC MagazinesUP.. **31%**

*1948—the first year "U.S. News & World Report" appeared in its present form.

Source: Magazine Advertising Bureau and comparison of publishers' statements to Audit Bureau of Circulations.

Demand for important news

Never before have so many people been so intensely interested in the developments of government, of business, of science. Never before have they realized how much these developments affect the way they live and the way they make a living.

As a result, they demand and expect news that penetrates and clarifies the significant events and pressing issues of the times. They demand and expect news that answers urgent questions. They demand and expect news they can rely on to guide their business and personal plans and decisions.

Which helps explain why "U.S. News & World Report" has more than tripled its circulation in just 12 years. It is the one magazine in America that concentrates exclusively on the essential and useful news. Completely, too, with more pages of news than any other news magazine.

Shift within a shift

What makes the tremendous growth of "U.S. News & World Report" even more significant is this: it has attracted a large percentage of its subscribers from the two other news magazines. Specifically, 29% formerly subscribed to Time, and no longer do. Also 25% formerly subscribed to Newsweek, and no longer do.

This shift is natural and spontaneous. "U.S. News & World Report" has the most voluntary circulation operation in its field. Content alone attracts and selects its audience—assuring not only thorough readership but high advertising visibility.

More than readers—customers!

And the class of people drawn to this kind of magazine are usually those with the bigger responsibilities and better incomes. Of the three news magazines, "U.S. News & World Report" has the highest concentration of managerial and professional families and the highest

average family income—\$15,496. Here are customers—the kind of people who do the buying for business; the kind of people who account for the buying of just about all major-purchase consumer products and services.

A non-duplicated market

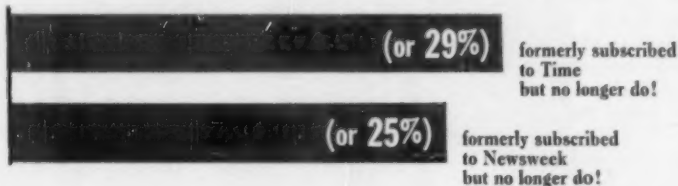
These are busy people. They rarely have time for more than one news magazine. Close to a million of them do not subscribe to Time, and more than a million do not subscribe to Newsweek.

Clearly, "U.S. News & World Report" provides a non-duplicated market of responsible, high-income people no advertiser can afford to overlook. No wonder it's also the target of a pronounced advertising shift, expressing a growing conviction that this is, indeed . . .

**The most
important magazine of all**

SUBSCRIBER SHIFT TO "USN&WR" FROM OTHER NEWS MAGAZINES

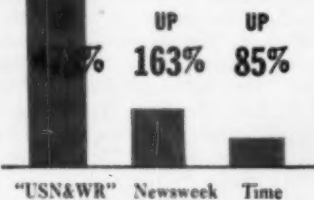
Of Total "USN&WR" Subscribers . . .



Source: Survey of "USN&WR" Subscribers, January 1959, based on current "USN&WR" circulation rate base.

ADVERTISING SHIFT TO "USN&WR"

(Advertising revenue growth, 1948-59)



Source: Publishers Information Bureau.

A NON-DUPLICATED MARKET NO ADVERTISER WANTS TO MISS!



Source: "USN&WR" Subscriber Preference Study, 1959.



U.S. NEWS & WORLD REPORT

America's Class News Magazine

Now more than **1,175,000** net paid circulation

Advertising Offices: 45 Rockefeller Plaza, New York 20, N.Y.
Other Advertising Offices in Boston, Philadelphia, Pittsburgh, Cleveland, Detroit, Chicago, St. Louis, Los Angeles, San Francisco, Washington and London.

WORTH WRITING FOR...

A selection of noteworthy studies of markets, media, consumer buying trends, product and service developments that can pay off for you.

The Industrial Market

A report which reveals that the men who place the biggest orders for industrial goods have taken cover from salesmen. These big buyers, and other chief influences of big purchases, are more deeply hidden in management hierarchies of larger corporations than ever before—often behind unrevealing titles. The trend is growing. The report mines the latest sources for figures that show the dimensions, concentration and geography of today's changing industrial market. In 1959 U.S. industrial production hit \$164 billion, up from \$105 billion in 1947. Of total sales, a mere 236 firms account for 32%. The U.S.'s industrial belt has half the nation's people but accounts for three-quarters of its manufactured products. A number of figures have been projected to shed light on the future. Industrial production is likely to zoom by 60% between now and 1970. Write to Dr. Edgar Gunther, Director of Market Research, Dept. SM, Fortune, 9 Rockefeller Plaza, New York 20, N.Y.

The Syracuse Market

A study of this 15-county market of 1.4 million people, with total retail sales of \$1.7 billion. Data cover: population—15-county, Standard Metropolitan Area, ABC Zone; households; food store, drug store, furniture-household, general merchandise and automotive sales; industry and employment; number of grocery stores and dollar volume; chain and cooperative groups; number of drug stores;

test-market characteristics. Write C. S. Hurley, Advertising Director, Herald-Journal and Post-Standard, Dept. SM, Syracuse, N.Y.



Newspaper Markets

Fourth annual data book which defines, measures and maps the markets served by the daily newspapers published in each of the nation's metropolitan areas. In four sections, it (1) lists data on population, buying power and retail sales for each newspaper market, in order of size, with cumulative percentages of the national total, compared with metropolitan data in each case; (2) lists alphabetically (by state) each newspaper, coded to show whether it is morning or evening, has separate or combination or optional rates, along with its current circulation and open-line rate, and availability of color; (3) includes individual maps, arranged alphabetically, coded to show the counties covered by each group of metropolitan dailies; (4) shows readership norms for newspaper advertising, separately for men and women, by size of ad, by type of

product. Write Alan S. Donnahoe, Executive Vice President, Richmond Times-Dispatch and The Richmond News Leader, Dept. SM, Richmond, Va.

A New Major Market

Called Car-Va, the area includes the Carolinas and Virginia, with sales potential which ranks among the top markets in the country. The presentation compares Car-Va with other regions and points up the major marketing differences, revealing that in terms of total retail sales, food and drug sales, income per household, Car-Va is as rich in sales potential for consumer products as is the New England area of Connecticut, Massachusetts and Rhode Island. Write Robert H. Teter, Vice President and Director of Radio, Peters, Griffin, Woodward, Inc., Dept. SM, 250 Park Ave., New York 17, N.Y.

ARF Publications

Bibliography arranged by type of publication: appraisals, consultations, supervised studies, general publications, conference proceedings, speeches, reprints. Annotations describe the contents, title and date of each item. Write Dept. SM, Advertising Research Foundation, Inc., 3 E. 54th St., New York 22, N.Y.

Bankers' Reading Habits

A survey conducted by Walter Gerson and Associates, Inc., among members of the American Bankers Assn. The purpose: to determine the comparative readership of eight major magazines. The magazines: Business Week, Fortune, Life, Look, Newsweek, The Saturday Evening Post, Time, U.S. News & World Report. Write Norbert Hofman, Jr., Dept. SM, Newsweek, 444 Madison Ave., New York 22, N.Y.

Sales Aids from Advertisers

Have you written for these booklets or samples described in recent advertisements in Sales Management?

Gift Food Pacs: Four-color catalogue showing over 25 gift food pacs. Dept. SM, Mickey Houston, Inc., 79 S. Water Market, Chicago 8, Ill.

Leasing Cars or Trucks: A fleet plan backed by 24 years of successful experience. Dept. SM, Wheels, Inc., 6200 N. Western Ave., Chicago 45, Ill.

Binders for Advertising and Sales Promotion Material: Catalogue and advertising covers showing dozens of ways to present and tell a selling story to customers. Dept. SM, Yawman & Erbe, C. E. Shep-

pard Co. Division, 44-28 21st St., Long Island City 1, N.Y.

The Hospital Market: A report on market highlights. Dept. SM, Hospitals, Journal of the American Hospital Assn., 840 N. Lake Shore Drive, Chicago 11, Ill.

Select-A-Market Program: Details on how nine kinds of advertisers can benefit from it. Dept. SM, The Saturday Evening Post, Independence Square, Philadelphia 5, Pa.

Pontiac, Mich., Market: Fifty-eight-page study conducted by Benson & Benson, Inc., in consultation with Advertising Research Foundations, Inc. Dept. SM, The Pontiac Press, Pontiac, Mich.

Lithographed Metal Containers: Information and samples of brand-identification

containers. Dept. SM, J. L. Clark, Rockford, Ill.

Direct Mail and Sales Promotion: Descriptive booklet about how leading companies plan, create and produce direct mail and promotion. Dept. SM, Dickie-Raymond, 225 Park Ave., New York 17, N.Y.

Major U.S. Markets: 1960 analysis of all 300 Metropolitan Markets. Dept. SM, Greensboro News and Record, Greensboro, N.C.

The Extra Unit Family: A study of the families that buy the second car, refrigerator, home, television and radio set, phonograph, camera. Dept. SM, Holiday Magazine, Independence Square, Philadelphia 5, Pa.

Wonderful World of Fragrance

With creative research and modern production facilities in every major marketing area of the free world, IFF develops and produces the persuasive fragrances that give sales appeal to successful consumer products the world over.

*The right fragrance for your
new product...an exclusive
IFF creation.*



Still Room at the IFF plant, Union Beach, N. J., where the most advanced high column vacuum distillation equipment produces, in quantity, the purest aromatic materials for making fine fragrances.

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INTERNATIONAL FLAVORS & FRAGRANCES INC.

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Leading Creators and Manufacturers in the World of Fragrance

ARGENTINA AUSTRIA BELGIUM BRAZIL CANADA ENGLAND FRANCE GERMANY HOLLAND INDONESIA ITALY NORWAY SOUTH AFRICA SWEDEN SWITZERLAND



A complete TV studio—plus theater screening equipment—goes on a multi-city tour.



Mayflower simplifies even the most complicated moves



America's Most Recommended Mover

● Color television cameras, transmission and receiver consoles, monitors, lighting and projection equipment—a half-million dollars worth of delicate units for Smith, Kline & French's elaborate closed circuit TV telecast demonstrations—has been "touring by Mayflower" for the past several years.

Moved from city to city in one of Mayflower's new special tandem-axle "soft ride" Mayflower vans, every show was televised on schedule. Every piece of equipment was delivered undamaged for each different city's performance.

It will pay you to call your Mayflower agent for your next moves of high value equipment or exhibits. Write now for "17 Reasons Why" an illustrated booklet particularly helpful for exhibit managers.

AERO MAYFLOWER TRANSIT COMPANY, INC. • INDIANAPOLIS, INDIANA

Major Companies Report:

'HOW WE SPOT TURNING POINTS IN BUSINESS'

A question sales heads of major companies frequently raise with their fellow executives is, "How do you spot near-term turning points in business?" So we have turned to 16 professional economists on corporation staffs, in industry associations, and in other affiliations, to find out which factors they rely upon in making economic forecasts to management.

We did not ask them whether the nation now is in or near a recession.

We did ask each to identify the half-dozen or so factors which he finds most meaningful for the near-term (3 to 12 months) in spelling a change in the economy of the nation as a whole. We also asked each to identify the factors of prime importance in spotting near-term turning points for his company or his industry.

You can select the factors which are most applicable and use them as guides for spotting turning points for your company.

"We Watch Prices of Sensitive Commodities"

By Ira T. Ellis, economist, E. I. du Pont de Nemours & Co.

"We follow the 'leading' indicators developed by the National Bureau of Economic Research as the most reliable indicators of imminent changes in the trend of business activity.

"We also note the level of new orders of durable goods manufacturers in relation to the current sales level. Another indicator is the projected trend of business spending for new plant and equipment, as provided by the U. S. Department of

Commerce and the Securities and Exchange Commission, and by the McGraw-Hill organization. We also follow the trend of housing starts.

"Finally, we watch prices of sensitive commodities—basic raw materials whose production and consumption are world-wide, and therefore whose prices fluctuate sensitively with changes in supply and demand."

"The Ones of Prime Importance"

By B. J. Korb, manager, Market & Economic Research, Koppers Co.

"... the things we watch, for cyclical changes in business, are simi-

lar to those used by most other firms. We watch the 'leading indicators' of the NBER; but in addition, there are a number of other series that seem to be useful.

"For example, inventory-sales ratios appear to be useful, as does the ratio of inventory to new orders. Of these two, the latter seems somewhat more useful. In addition, we watch such things as paperboard new orders, construction contract awards, plant and equipment surveys, and surveys of consumer intentions. A relatively new series which looks to be very useful is the new Capital Appropria-

(continued on next page)

'HOW WE SPOT TURNING POINTS IN BUSINESS'

(continued)

tions Survey of the NICB.

"Of these, the ones which seem of prime importance to our business are construction contracts, the inventory ratios, and the plant and equipment expenditures."

"Once the Critical Factors Are Isolated"

By Wilson Wright, economist, The Procter & Gamble Co.

"At different times, the factors which bring about major changes in the trend of business activity are quite different. For this reason, we attempt a comprehensive analysis of the economic situation, in order to try to understand what are the particular critical factors in any given period. Once the critical factors are isolated, these may be made the major objects of attention.

"After following this kind of procedure over a period of a good many years, I have found that the things which bring about major changes in business activity are quite different in different periods, and I would be quite unable to provide a short list of a few things to watch, which would be of any use to a person attempting to assume responsibility for the conduct of business operations.

"As an example, I may suggest that, in the present, the willingness of foreign investors to keep their funds in the United States is an important factor in the outlook for business. This particular factor has not been of much consequence for a very long time."

"A Growing Obsession with Near-Term Forecasting"

By Leo Teplow, assistant vice president, American Iron and Steel Institute

(How do I spot near-term turning points in business?) "In my case, I don't.

"In fact, it seems to me that there is a growing obsession with near-term forecasting which tends to exaggerate swings in the business cycle. Note, for example, the rosy expectations at the turn of the year with the

current gloom—neither of which is based on much more than hunch or general climate.

"If businessmen would concentrate their energy on giving the customer more value for his dollar rather than spending time gazing into rather cloudy crystal balls, the economy would probably sail on a more even keel—and at a somewhat higher speed."

"Of Greatest Forecasting Significance to Our Company"

By A. G. Matamoros, general manager, Economic and Marketing Research, Armstrong Cork Co.

"We should like to think that we have been reasonably successful in spotting 'near-term turning points in business,' although our batting average is certainly far from perfect. Let me say at the outset that we have found no business indicator or group of indicators which magically and with precision foreshadow economic peaks and troughs. Rather we rely on a number of business research tools and techniques in our forecasting of general business activity, recognizing that the direction which the economy takes is most often the net result of conflicting movements within its sectors and that no one technique of analysis will provide all the answers all the time.

"One of the many techniques which we employ we term the 'key factor' approach whereby we analyze orders, shipments and backlogs in the 'barometric' paperboard industry, new and unfilled orders for durable goods, sensitive commodity prices, residential and nonresidential contract awards, and common stock prices.

"Of greatest forecasting significance to our company are construction contract awards and consumer intentions and attitudes surveys conducted by the Survey Research Center of the University of Michigan and the NICB.

"You recognize, of course, that there is no pat answer to the business forecasting problem. The only potentially successful approach for the individual company is that which



KOPPERS' B. J. Korb: "The things we watch are similar to those used by most companies: NSR indicators plus others related more to our business."

carefully relates anticipated shifts in key environmental variables to internal operations, organization, policies, and plans."

"Have Particular Relevance to Capital Goods Industries"

By B. J. Bowlen, economist, Business Research Department, Caterpillar Tractor Co.

"My answers to your questions are intended to have particular relevance to capital goods industries; other indicators might be more appropriate to consumer goods forecasting.

"The factors which I consider to be particularly useful in the near-term business forecasting are:

- "1. Orders for manufacturers durable goods
- "2. Sales of manufacturers durable goods
- "3. Inventories of manufacturers durable goods (Each of these appears monthly in the Commerce Department's Survey of Current Business)
- "4. Construction contract awards
- "5. Plant and equipment expenditures

"The relationship between orders and sales of manufacturers durable goods has been an important leading indicator in the postwar period. A decline in orders below the sales level has preceded economic downturns by several months. We compare sales and inventories of manufacturers durable goods, and have found in normal times that a fairly fixed ratio



PROCTER & GAMBLE'S Wilson Wright: "The things which bring about major changes in business activity are quite different during different periods."



DU PONT'S Ira T. Ellis: "In addition to usual indicators, we watch prices of basic raw materials whose production and consumption are world-wide."



ARMSTRONG CORK'S A. G. Matamoras: "Of greatest significance to us are construction contract awards and consumer intentions and attitudes surveys."

exists. A desire to cut inventories indicating a less buoyant economy is noted when sales decline relative to inventories and vice versa. Contract awards have special relevance to suppliers of construction machinery. We obtain our plant and equipment expenditure expectations from the survey conducted by the SEC-Commerce Departments."

"Lead" Series Not Especially Impressive

By Robert J. Landry, Dun & Bradstreet, Inc.

"... In our forecasting work we have never given high priority to the behavior of 'key' series, relying instead on analysis of as many elements entering into the situation as we are able to treat. In our experience, the record of work with small packets of 'lead' series is not especially impressive, at least so far as concerns the timing problem."

"The Role of 'Conservative Bias'"

By Emerson P. Schmidt, director, Economic Research Department, Chamber of Commerce of the United States

"The test of a forecaster is his ability to forecast a turning point. However, there is a human tendency for individuals to avoid interpreting a change in the level of a statistical series as a portent of a turning point in general business activity. It is much easier—and more comforting—to assume a continuation of relative sta-

bility, or the continuation of a trend rather than go out on a limb forecasting a major change.

"This conservatism on the part of the business analyst tends to re-enforce a conservatism on the part of the statistician preparing the data. Many statistical series, especially in their preliminary form, contain a measure of estimation. In order to get the data out as soon as possible, a number of statistical series are published in preliminary form with only part of the returns in. Statisticians preparing the data will estimate the total from this incomplete return—and they will, in many cases, tend to iron out radical changes indicated by the partial sample as being improbable or unrepresentative. Only when all of the data are in—sometimes one to two months later—will it be obvious whether a real change in level—a turning point—has taken place. How important this 'conservative bias' really is, has never been determined. It is just another thing to keep in mind when viewing a forecast of continuation of present levels of business activity."

"These Series Call the Turns..."

By George Cline Smith, vice president and economist, F. W. Dodge Corp.

"A statistical series which is of particular importance in our own work, and probably just as important in any type of general economic forecasting, is our own series on construction contract awards.

"This is not intended as a special plug, but is based simply on the facts of the case. As you may be aware, two of the famous eight leading indicators developed by the National Bureau of Economic Research are our own construction contract figures, for floor area of residential and for a combination of industrial and commercial building. These series call the turns in construction extremely well, as might be expected, but according to the National Bureau's work, they also serve as some of the best indicators of turns in the general economy.

"We use dozens of other series, and it is difficult to select only a few which are extremely helpful. Among them are the Commerce Department's quarterly Survey of Current Business plant and equipment spending plans, The Federal Reserve Board's Index of Industrial Production, the Census Bureau's series on housing starts, and various statistical series covering interest rates.

"I am personally inclined to place emphasis in assessing future turning points on series which reflect planning and attitudes on the part of businessmen and consumers. Such series include the plant and equipment plans, construction contracts business appropriations, consumer attitudes, and similar series which relate directly to future events rather than past history. Many of the most popular series merely reflect events of weeks or months past, which themselves reflect decisions and attitudes which occurred even further in the past."

(continued on next page)

'HOW WE SPOT TURNING POINTS IN BUSINESS'

(continued)

"Must Consider Combined Effect of All Indicators"

By Colin G. Clark, director of research, The Econometric Institute, Inc.

"Our experience in this Institute over a long period of years (the Institute was established in 1938) suggests that it is a mistake to try to find half a dozen or so factors particularly meaningful for detecting turning points in business. We have built up a system of equations which we use for preparing our forecasts, and we do not think that any forecast can be prepared until the combined effect of all the factors has been considered."

"We Intensify Our Study . . ."

By Martin R. Gainsbrugh, chief economist, National Industrial Conference Board Inc.

"We use a series of approaches at The Conference Board to help us in determining turning points in the business cycle.

"We begin with the leading indica-

tors drawn from the basic studies of the National Bureau of Economic Research. We have also developed several leading indicators of our own including the Board's diffusion index, summarizing the behavior of twelve important indicators of activity. Our recently published 'Help Wanted' index seems to be a sensitive indicator of conditions in the labor market. These measures are suggestive but not necessarily conclusive indicators of cyclical changes and need to be confirmed by broader analysis.

"We, therefore, secondly, make intensive use of foreshadowing statistics drawn from expectational surveys of spending plans. These include our surveys of capital appropriations sponsored by Newsweek and The Iron Age as well as the continuing surveys of consumer attitudes and buying plans we prepare for Newsweek.

"Thirdly, we engage in intensive statistical research in individual areas of demand, to attempt to establish the major determinants of spending. From such research we attempt to appraise through mathematical equations the relative 'normalcy' of spending for such key items as capital goods and inventories.

"Finally, since we still believe that business analysis as we approach turning points in the cycle remains more of an art than a science, we intensify our study of such qualitative considerations as monetary and fiscal developments here and abroad, trends in prices, costs and profit margins, etc. The emerging structural changes

in the economy are weighed for their expansionary, sustaining or contracting significance. This phase of business analysis is admittedly the most difficult, and highly subjective. Without it, however, the three more mechanical approaches described above often yield misleading answers."

"Indications of Intent . . . Are More Significant"

By Burton N. Behling, economist, Association of American Railroads

"How do you spot near-term turning points in business? A short answer is that I don't and neither does anyone else. The most difficult, and I say impossible, aspect of forecasting is the attempt to predict when turning points will occur.

"Statistics which are commonly used as 'economic indicators' record past events. By the time they are collected and issued they may reflect conditions of one to several months past. The usual indicators also are subject to margins of error that may be considerable, a circumstance that is too often overlooked.

"Notwithstanding all this, we must, of course, endeavor as best we can to make judgments about the future. The point I would stress is that indications of intention and anticipation are likely to be more significant with respect to the near-term outlook and turning points than are statistics with respect to past events. Therefore, I think that the kinds of things to be watched include:

"1. Declared intention with respect

21 Popular Indicators

Among the economic indicators with the largest following among professional economists are those classified by the National Bureau of Economic Research, Inc., as in the "leading group," the "roughly coincident group," and the "lagging group."

In general, the eight indicators in the "leading group" have reached their cyclical highs or lows several months before the business cycle peaks or lows.

The eight indicators in the "roughly coincident group" have their highs and lows at approximately the same time as business in general.

The five indicators in the "lagging group" reach their peaks and valleys a few months afterwards.

The National Bureau of Economic Research, Inc. (a

non-profit organization whose current president is Dr. Arthur F. Burns, first chairman of President Eisenhower's Council of Economic Advisors), does not publish periodic data or charts on these 21 indicators. Such information is published and sold on a monthly basis by several private organizations.

The 21 indicators are:

LEADING GROUP

1. Business failures, bank, insur. and comm.
2. Common stock price index, industrials, Dow-Jones
3. New orders, durable-goods mfg. industries, value

to business capital expenditures,

- "2. Volumes of new orders in various lines of business, and
- "3. Inventory trends in relation to current sales."

"Judgment Is Still Likely to Be as Important as Data"

By Miles L. Colean, economist, Washington, D.C.

"I doubt that there are any specific statistical series which are either accurate enough or timely enough to give a dependable indication of what lies immediately ahead. The dispute among economists at the present time should be evidence enough that this is so. Moreover, there is always a good chance that some extraneous element like the Pennsylvania Railroad strike will thrust itself into the equation.

"I may suggest that the best thing to do is to take into account every element on which there is data, weigh it as best one can in the light of current conditions, and watch the trends that are revealed with the utmost care and skepticism. In the final analysis, judgment is still likely to be as important as data."

"Judgment and Feel Play an Extremely Important Part"

By Benjamin F. Stacey, vice president, The First National Bank of Boston

"If I had to put down a list of factors which I consider important in

spotting turning points, it would certainly include new orders and backlogs of manufacturers particularly of durable goods. Inventories by stage of fabrication for manufacturers, and by industrial classification, that is manufacturers, wholesalers, and retailers would be high on any such list. The third area is construction contract awards, especially for heavy construction. The fourth area would be money supply and the performance of business loans. The fifth factor would be industrial production.

"As you will observe, this list comes pretty close to that of the leading indicators. The performance of this group is erratic. They do not all move in the same direction at the same time. They give false starts and I must emphasize most strongly that judgment and feel play an extremely important part in the intelligent use of these factors.

"A device which I find helpful in connection with these items and other similar measures such as personal income, employment, trade, and the like, is the rate of change from year to year. A study of the patterns of percentage changes in such measures over the like month of the previous year can be very suggestive of trends in the economy."

"These Series Have a Substantial Following"

By Ralph Robey, economic advisor, National Association of Manufacturers

"The National Bureau of Economic Research has done more than any-

one else in studying the business cycle and attempting to develop methods for forecasting it with accuracy. The Bureau has various series which it has found normally precede a business downturn, another group which moves simultaneously, and still another group which is supposed to lag. These series have a substantial following.

"As for myself I read everything that comes along and by some means arrive at a judgment. I also talk to numerous persons and follow political developments with care. It is not an easy task and there always is an element of luck in whether one is correct."

"Economic Indicators I Most Frequently Use"

By Murray L. Weidenbaum, corporate economist, Boeing Airplane Co.

"The economic indicators that I most frequently use in this connection are the following:

- "1. The trend of the Gross National Product, particularly the quarterly rate of change.
- "2. Federal Reserve action with reference to easing or tightening credit.
- "3. The various surveys of business plant- and equipment expenditures such as the forecasts by the Commerce Department, McGraw-Hill, and the National Industrial Conference Board.
- "4. University of Michigan surveys of consumer buying intentions.

"The economic factors of primary importance to a major military supplier such as the Boeing Airplane Company are of a more specialized nature than those used to gauge the outlook for the national economy as a whole. The major indicators of future military spending patterns are the following:

- "1. The recommended new obligatory authority for the Department of Defense in the President's budget transmitted to the Congress each January.
- "2. The level of appropriations to the military establishment actually enacted by the Congress.
- "3. Changes in the rate of military orders, and,
- "4. International incidents, such as the Russian launching of a Sputnik, which may lead to changes in each of the three factors above." ♦

4. Residential building contracts, fl. sp.
5. Comm. and indus. building contracts, fl. sp.
6. Average workweek, mfg.
7. New business incorporations
8. Index of spot market prices, basic commodities

ROUGHLY COINCIDENT GROUP

9. Employment in nonagricultural establishments
10. Unemployment
11. Bank debits outside New York City
12. Freight carloadings
13. Industrial production index (incl. utilities)

14. Wholesale price index, excl. farm prod. and foods
15. Corporate profits after taxes (Q)
16. Gross National Product, current dollars (Q)

LAGGING GROUP

17. Personal income
18. Sales by retail stores
19. Consumer installment debt (end of month)
20. Manufacturers' inventories, book value (end of month)
21. Bank interest rates on business loans (last month of quarter)

16

Case Histories on Plant and Employ

4-Digit SIC Opens up a New Phase SIC as applied by the Cambridge Wire Cloth Co.

We started our present market research program in 1955, using plant employment as the yardstick of comparison. At that time the following steps were taken:

1. All orders were classified in accordance with SIC (2 digit).
2. Percentage calculations of our sales in the various SIC categories were made to give us the "industry weight" of each classification.
3. Using the McGraw-Hill "market planning workbook," we multiplied "total employees" percent by the above "industry weight" to give us the potential percentage of business that could be expected from each area and territory.

At this time our sales were being handled by seven territorial offices, all located in major cities. This original study revealed that some of the territories, considered our best performers, were not so good when the potential was considered. Definite area weaknesses were revealed that indicated better coverage was needed; and subsequently we re-arranged our territories to include three new ones. We now have ten sales territories and the potential of each ranges from 8% to 12%.

This employment yardstick has enabled us to spot minus areas immedi-

ately so that corrections can be made after determining the causes.

We use the "employment" potential as a prime consideration for estimating territorial quotas. Of course, the final quota is seasoned with other considerations, such as past performance, proximity to our plant, local competitive conditions, etc.

The study also revealed territorial weaknesses in certain industries, instigating market surveys that showed we were not reaching a large number of companies that were using our product.

The availability of 4-digit SIC information has opened up a new phase in our market research. To put it briefly, the original 2-digit SIC enabled us to use the shot-gun approach which covered a broad area of industries. Now, with the 4-digit SIC it is a rifle approach, pinpointing actual plants that use our product.

Our first approach to the 4-digit SIC was to mark in the Government manual the specific types of plants in the various industries that we know are using our product. Then we obtained a complete library of state manufacturing directories, most of which give not only individual plant employment, but also the SIC numbers in four digits. We decided to include in this study all plants in the categories we were interested in

employing over fifty people. Knowing the proper categories, and minimum employment to be considered, a special task force was employed to mark each plant listed in the state directories that met the specified requirements. Our present plans call for each of the selected companies to be contacted either by letter, phone, or personal contact.

At the present time we are conducting a Western Union survey in the state of Rhode Island. In this particular case we are using the Dun & Bradstreet market study directory of Rhode Island, and we had to use capital rating as the yardstick instead of employment. However, all of the other states will be surveyed on the employment basis.

Our present mailing list of 45,000 is being reviewed and over half the names will be deleted because they do not measure up to the requirements we have set for prospective customers. However, they will be replaced with new names that we know definitely are prospective customers. We estimate that this move alone will save us approximately \$12,000 annually. We will continue to mail literature to every one who requests it, but new names will not be added to our mailing list unless they meet the requirements of employment and type of plant.

Use of ment Data

These case histories were written by marketing executives in companies that have used SIC (Standard Industrial Classification) codes to solve a variety of sales/advertising problems.

The companies involved spell out the benefits they enjoy from SIC, and they frankly admit the limitations of SIC, in some instances, in application to their particular problems.

Several companies report in detail on how they use SIC in deciding upon markets in which to advertise and on media to use. This use of SIC is likely to grow rapidly in this decade as more companies identify their customers and prospects by SIC codes.

After We Establish Market Values

SIC as applied by Westinghouse Electric Corp., Industry Market Planning Headquarters Sales

From the number of employees data by SIC category, we develop indices which are applied to national market figures, to derive markets by smaller increments. These market values, of course, are tempered by management judgment in these areas in an effort to balance the relative efficiencies between plants. (Two plants, each with 1,000 employees, can vary widely in output—and ap-

paratus requirements—if one is an old plant, and the other a new, automated plant.) After we establish these market values, we compare our sales to them, measuring relative changes in the markets and our sales position with respect to the markets.

In addition, we find the market figures thus derived helpful to us in analyzing our distributor coverage for those products which normally are

sold through these channels.

Probably the greatest use we make of the Census of Manufactures data, however, lies in the many specialized studies we make. Here at Headquarters Sales, we are organized on an industry basis, which means that we are constantly studying specific industries. Plant employment data and data on number of plants are basic to these studies.

Basis for Practically All of Our Potential Analyses

SIC as applied by the Norton Co., makers of abrasives, refractories, grinding, lapping and gear cutting machines

Employment statistics have served as the basis for practically all of our potential analyses. Experience has shown that in most instances it is necessary to have employment in 4-digit Standard Industrial Classification detail. Consequently, the Census of Manufactures is a most useful tool.

Sales per employee values have been developed for each of the 4-digit Standard Industrial Classification groups of significance in the

purchase of grinding wheels. These sales per employee values represent the annual dollar value of the grinding wheels expended by an employee in each of these industrial classifications. The sales per employee statistics were developed several years ago, so we are now updating these data.

Obviously, with such sales per employee statistics, it is possible to compute a potential for any 4-digit industrial classification for which em-

ployment data are available. The sales per employee value is, of course, an average figure. It applies to that hypothetical average employee of the U.S. as a whole. Thus, it must be borne in mind that error is incurred in any instances where this value is applied to the employment of any subdivision of the U.S. Experience has shown that on the state level the potential calculated for a given 4-digit SIC group and using the average sales per employee factor is reasonably reliable.

We have used employment data as the basis for evaluating potentials within several breakdowns. Among these are: by state, sales district, sales territory, industry, product group.

Further, the material has been used on a county level but only after the results have been confirmed by other methods. (continued on next page)

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Case Histories on Use of Plant and Employment Data

(continued)

'Our Entire Ad Budget Is Allocated by SIC'

SIC as applied by Superior Tube Co.

Our entire advertising budget is allocated by major market (SIC). A sales analysis which is done each year indicates that 97% of our business falls into ten major (2-digit) SIC markets. In analyzing our sales in these markets we have established the historical pattern of the relative importance of each one to Superior.

In the case of advertising media, most publishers break their circulation by SIC and if they do not, we attempt to do it, based on the information they provide. After the publications have been selected and the rates figured, the percentage of the circulation by market is used to compute the dollars which will be spent in each of the markets the publication serves. As an example, a design publication could serve four general metalworking markets—50% in the electrical industry, 25% in the instrument industry, 15% in the aircraft industry, and 10%

in machinery. Total space cost of, say, \$8,000 is then prorated, using the percentage above. The amount of production costs to produce the ads is prorated in the same manner.

With direct mail, our lists are broken by market and the same study of potential is applied. Thus the total direct mail budget is allocated by SIC.

Trade shows are usually vertical promotions, but if they are general, such as the Metal Show, a study of the show attendance records can again be broken by market served.

Our publicity program is a little more difficult. Since much of the publicity ties in with new products and subdivisions of major markets, the rating of projected case history stories, feature stories, and new product stories by dollars requires careful study and tie-in to management objectives.

To support all the promotion programs above, we require a lot of technical literature. The emphasis placed on each market in the rest of the campaign determines how much literature is required to support the inquiries we seek. For example, 22% of our sales fell into the transportation (aircraft) industry—SIC 37—and the previous year we had spent 16% of our total advertising dollars in this market. Based on the size of the market and the potential, and weighing it with other markets, this year we increased the budget to 19%. We needed to include more space advertising, direct mail, trade shows, publicity activity and additional product literature to support the above.

The budget for each market is prepared, based on the task method, and then the entire budget is reviewed and adjusted, in relation to company objectives, historical sales pattern and a reasonable budget appropriation figure.

Other areas wherein we are applying SIC include the following:

1. Analysis and evaluation by 4-digit SIC of distributor sales territories for all U.S. This is very comprehensive. The biggest improvement made in 1960 is that this analysis incorporates the breakdown by plants making up to six different products at one location.
2. Preparation of an SIC manual for our full line of products.
3. Preparation of market literature by SIC.
4. Forecasting.
5. New product market research, geographically.

'A Top Manufacturing Area Is Not Necessarily a Top Sales Area'

SIC as applied by Arwood Corp., producer of castings

We are an investment casting foundry and as such we do not market any products of our own. Everything is produced to customer specification. Before the SIC was available the task of locating the various industries we should promote to was huge. With the SIC we can analyze our past sales and come up with an historical picture of our market. From that point we can promote to all companies in industries previously sold.

As soon as it was determined that

our main markets had narrowed down to five or six main 2-digit SIC categories, we proceeded to promote to all companies in those categories (using the 4-digit SIC classifications) which had not been sold to before. We were thus able to open up many new fields for our casting.

The SIC also has a great deal of value in evaluating territories. For instance, it had been taken for granted that a top manufacturing area had been a top sales territory. However,

when with the help of SIC we rated territories according to our own sales potential, what was once considered a first-rate selling market was downgraded to fourth- or fifth-rate. The Detroit area rates high as a manufacturing center, but this is due mainly to the automotive and allied industries. The potential for us in the automotive industry is very small, because of the nature of their requirements and of our type of production. It is this ability to streamline market data to your company's own needs that is the chief advantage of the SIC categories.

We have also used these industry classifications for the selection of media. With the magazines' presenting their circulation figures according to SIC, the advertiser can better judge which ones will reach the audience of his particular market.

'SIC Approach Raises Many "Whys"'

SIC as applied by C. A. Norgren Co., manufacturer of pneumatic products

By relating internal data to SIC industrial categories, we can obtain helpful answers to such questions as:

1. Which SIC industrial categories use Norgren products?
2. What is the market potential by

SIC category and by sales territory?

3. What share of the total potential market does Norgren have?

The information developed by this approach does give a measure of

market penetration. However, this approach raises many "whys" which remain unanswered. Therefore, we feel it necessary to supplement this approach with market research aimed at the untapped potential of Norgren's market.

'You Are Forced to Examine Publications Qualitatively'

SIC as applied by Greenfield Tap & Die, division of United-Greenfield Corp.

Our first flyer into this research asked only for SIC breakdown by number of plants and number of copies. While we were able to develop some very interesting data, in comparing publications, we found that some concentrated on larger plants, reflected this in their editorial complexion. In order to better evaluate this factor we added the breakdown by plant size.

Our own sales research data is compiled by SIC and plant size, so we have attempted to compare magazine circulation patterns with our own pattern. We should have two patterns, an actual sales pattern and a potential pattern. Unfortunately our actual sales cannot be accurately classified because we sell through distributors and it would be extremely difficult to get figures on ultimate use of our tools. However, our potential is easier to get and we hope is fairly accurate.

In any event, we feel that our advertising is essentially aimed at the potential market so comparison of our potential pattern with magazine circulation pattern is valid.

Now, as to the cooperation of the publishers, this has been very good. The first year we could not get the information from many magazines as they just did not have it. We can now get it from all but one as far as SIC is concerned.

As for breakdown by plant size, several magazines still cannot give it to us but most of these are working on it and are either installing electronic machinery or are planning to. We hope that in another year or two this will be routine with even the smallest publishers.

At first some publishers dragged their feet a little on this project, but as a rule most of them were very cooperative even though it meant put-

ting themselves to some expense. One small publisher has told us that we have pushed him into doing something he should have been doing for years.

What changes have we made in our schedule as a result of this information? So far not many, as we are feeling our way on this technique and as this is an "on and off" project the follow-up has not been as good as it should be. However, our personal opinion has been verified in many instances and changed in others, not so much by the figures as by the fact that this sort of study forces one into other studies.

To be specific, what if you find that of two magazines one covers your market 99% but the other only 75%, do you automatically go for the 99% coverage? No, you are forced now to examine them qualitatively. So the biggest lesson we have learned from this project is that one criterion is not enough. To do a thorough job will require at least three complete studies:

1. Circulation
2. Editorial
3. Readership

This is really a job for a research team. We are only pecking around on the edges.

'SIC is the Cornerstone of Our Marketing Research'

SIC as applied by Vickers Inc. (division of Sperry Rand Corp.), makers of hydraulic equipment and control mechanisms

As far as Vickers Inc. is concerned the SIC is one of the cornerstones of our marketing research effort. We have divisions selling to industrial markets (as contrasted to others selling to military markets) and the comments we make on SIC refer to these in-

dustrially oriented divisions. Every sales order processed by these divisions is coded on the basis of the SIC. This information is then put into our tabulating department and processed through our Univac computer.

Every month we receive a report

from Univac giving us a complete breakdown for the U.S. based on SIC. A similar breakdown is obtained for each of the district offices throughout the U.S. We also obtain a quarterly summary as well as an annual summary of this same information. Thus we are able to know at the close of each month what percent of our total business is coming from which market. We are also able to make comparisons as to the market penetration this year compared to previous years.

This basic sales analysis information is valuable to us in many other marketing areas. For example, it is

(continued on page 136)

LOGAN TRUAX JOHNSTON

DYNAMARKETER

Armco Builds Men to Market

By LAWRENCE M. HUGHES
Senior Editor

"A company's profit-making ability can only be as great as the combined skill of all the men who manage it."



'New Steels' of Tomorrow

Logan T. Johnston feels no regret over the fact that he declined to follow in the footsteps of his Presbyterian missionary father. Selling steel has been challenging. If he could turn the calendar back 35 years, he would still have selected steel.

But though Armco Steel Corp. of Middletown, Ohio, has had a stimulating past, its president is concerned only with the future: "If you worry about today," he says, "you're lost."

Other steel makers may be busy bemoaning the fact that their industry now operates at only 53% of capacity. (Armco's rate is 63%.) Producers of rival materials, from aluminum to plastics and fiber glass, are now busy shouting that, for 1,001 purposes, that old standby steel no longer is needed.

But under Logan Johnston, Armco is planning and betting big:

- Investing \$341 million in new and better facilities between 1960 and 1965.
- Doubling the size of the company's Research Center to insure that tomorrow—more than ever—"New steels are born at Armco."
- Stepping up "promotional selling" of specialized products—tailored to customers' needs, and supported by a record advertising program—to expand sales by 60% to \$1.6 billion by 1965.
- Decentralizing operations into separate divisional "profit centers," and training 5,000 managers (from foremen up) to build the skills to meet tomorrow's needs and opportunities.

All of these will count. But at Armco, Johnston emphasizes, the morale and effectiveness, not only of the managers, but of the entire group of 40,000 "associates," will continue to count most.

At Armco the "function" is everyone's concern. And instead of being industrial or labor or even personnel relations, it is personal relations.

Founder George M. Verity (another minister's son) was called by his fellow steelmakers a "boy scout," or worse, for introducing such policies as an 8-hour work day and group insurance. And as early as 1904, employees were asked to elect, by secret ballot, an advisory committee to meet with the managers—both to air and weigh grievances and to keep employees informed of company policies, practices and objectives.

And apparently people-development has paid off: Though sixth among steel companies in ingot capacity, Armco now ranks fourth in dollar sales and third in net profits. Some 76,000 stockholders have reason to appreciate the employees' morale—and development.

Chief executives of 171 large companies, surveyed by Dun's Review & Modern Industry, recently named Armco as one of the nation's 20 "best managed" corporations. They ranked marketing planning, organization planning

and research as management's major problems of this new decade. A big part of organization planning is management development.

In their annual report for 1959, Chairman Robert L. Gray and President Johnston included a section on "building management skills." They pointed out that "a company's profit-making ability can be only as great as the combined skill of all the men who manage it."

Armco pioneered formal training in 1904. For four decades it has recruited promising candidates from colleges. Predominantly, throughout the long years, promotions have been made from within.

But other factors than sales growth and expectations, Logan Johnston explains, accentuate the current need: In recent years Armco acquired two companies with more than 10,000 employees. The corporation now operates on a decentralized divisional management basis. And since 1956 retirement of top executives has been mandatory at age 65.

Now 61, Johnston himself has only four years in which to get some big plans realized.

► George Verity's little rolling mill operation on the Miami river will be 60 in February 1961. For the first three decades, Verity himself prevailed. For the last three, Verity's son-in-law Charles R. Hook (still honorary board chairman, at 80) held a firm hand on the helm.

Now, room at the top—and below—is starting to appear. "Down through our first 120 people," Johnston says, "we know where we stand. And back of each man we have three men qualified to do his job." To my question on "special comers," Johnston pulled out a lower lefthand drawer: "I spot them in each age bracket—in their 30's, 40's and 50's. I keep track of comers abroad, too."

(Today, Armco's six divisions operate a total of nearly 100 steel plants, mines, quarries and manufacturing plants in the U.S. and around the world, from Australia to Colombia and the Congo, as well as 400 sales offices, warehouses and stores.)

But on middle and lower levels, management needs are pressing.

Every Armco trainee takes a 3-week course to "get the feel" of the company. After that, one-fourth of all employees sign up annually for a lot of voluntary courses offered by the company.

Each year, Johnston adds, "we evaluate formally the work and capabilities of each of our 5,000 managers. These appraisals also help to indicate each individual's needs. Then a development plan is worked out by him and his supervisor."

"With every manager's qualifications on tab at headquarters, the corporate staff group can suggest candidates for any management post that opens anywhere in the company. The file also enables us to forecast management needs and make long-range plans to fill them."

The forecasts recently showed that Armco must have

It's 2 to 1

**in fast-service
eating places,
twice-the-turnover
per seat means...**

**MORE Meals
MORE Sales
MORE Profits**

NO MATTER WHAT YOU CALL THEM

Coffee Shops
Confectionery Stores
Counter Restaurants
Department Stores
Diners
Drive-Ins
Drug Stores
Fountain Restaurants
Industrial Cafeterias
Luncheonettes
Sandwich Shops
Variety Stores

NO MATTER WHERE YOU FIND THEM

Airports
Bus Terminals
Railroad Stations
Main Streets
Main Highways
In Industry

**THEY ALL HAVE
ONE THING IN COMMON—**

FAST SERVICE

To effectively reach this
specialized market specify
FAST FOOD
for an advertising schedule

EPA

NBP

FAST FOOD

magazine

630 THIRD AVE.
NEW YORK 17, N. Y.



LOGAN TRUAX JOHNSTON (continued)

DYNAMARKETER

many more qualified managers — fast. In the first five years of the retirement-at-65 policy, half of the 80 top executives must be replaced. Each replacement involves as many as 20 promotions down the line.

And so, this year, the company has started to school all 5,000 managers, here and abroad, in such skills as planning, organizing, motivating and controlling — all of which add up to "the Profession of Management"—and on how Armco thinks they should be applied.

Thus, continuously, under Logan Johnston, Armco spawns the managers to make and market the materials of tomorrow. With their development, Armco is investing big money to make a lot more money for its owners.

Johnston made news not long ago by announcing the "release" of \$95 million for capital expenditures. Actually, with \$101 million already under way, this brings to \$196 million the size of Armco's current program. Thus the current bet (of a company whose entire assets, as of last December 31, stood at just a shade above \$1 billion) comes to more than half

of the \$341 million planned for the five years 1960-65.

The whole investment is not so much in larger as in better facilities. Every dollar paid out now must bring back dollars in lower costs and greater profits.

At the same time, the company is stepping up product creativity.

In 1910 Armco established the first separate research laboratory in the steel industry. A few years before, when big U. S. Steel was being put together to "own" a commodity called steel, George Verity managed to get going and then growing by concentrating on, and creating, higher-cost and higher-profit "specialties."

The fact that a lot of these specialties have since become commodities does not worry Logan Johnston. Armco has licensed freely—and profitably. Under "revenues" for the year 1959, Johnston could report "dividends, royalties, interest, etc.," at a record \$21.5 million. He does not say how much of this came from royalties.

For a half-century Armco created and contributed at a rate of one major new product or process an-



"The F.T.C. says discount demands are illegal, so I'll ask you nicely . . ."

Editorial interest that's unbeatable!



Successful Farming has it—*self interest!*

No subscriber gets this magazine for entertainment, diversion, gossip or trivia—but because it contains information on methods, materials, machines. Information he must have and heed, to increase his production and income, to avoid mistakes, to cut losses, to plan better, to utilize best his farm plant, to hold his own in the agricultural revolution and the vicious squeeze between the prices he pays and the prices he gets.

He not only reads *Successful Farming*, but studies it, files it, refers to it again and again. Every issue means *opportunity*, and money in the bank.

The farmer's wife also gets help from *Successful Farming*. Her home is at the factory. No publication for urban women is concerned with her kind of housekeeping—for larger families, who eat larger meals and more at home than urban families. She entertains more at home. She battles mud and snow. Soiled work clothes make up much of her laundry. There is no shopping center nearby, so she must plan ahead for her buying, with larger orders and inventories. She can and does use the recipes, kitchen plans, work savers, suggestions for furnishing, decorating, serving, entertaining—all scaled to farm living.

In fifty-eight years of helping the country's best farm families earn more and live better, *Successful Farming* has earned an influence unmatched by any other medium. Influence manifest in the magazine's longer life, higher readership and recall of advertising—and higher response! If you want your advertising to sell something, put it in *Successful Farming*!

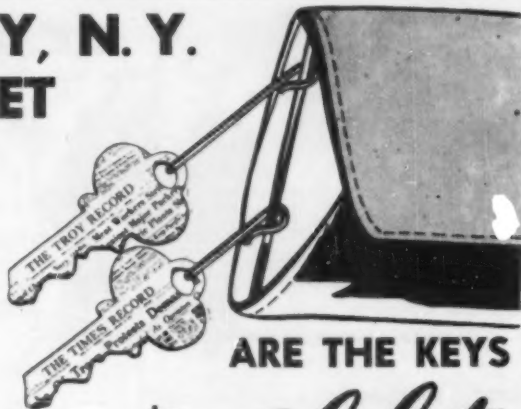
SF farm families are well off, with average incomes about 70% above the national farm average; rank high in car and truck ownership; have built more than 65,000 new homes in the past three years!

For details, see any SF office.

Successful Farming . . . Des Moines, New York, Chicago, Atlanta, Boston, Cleveland, Detroit, Los Angeles, Minneapolis, Philadelphia, St. Louis, San Francisco.



IN THE TROY, N. Y. MARKET



to
Response-Ability

97% With
ABC CITY
ZONE OF
136,000
(Coverage)

75% RETAIL TRADE
ZONE OF
233,000
(65% More Penetration Than
Any Other Newspaper)

**THE RETAIL TRADE ZONE HAS: 65,888 HOUSEHOLDS
... \$450,781,000 EFFECTIVE BUY. INCOME**

47,701 CIRC.

ROP FULL COLOR AVAILABLE

**THE TROY RECORD
AND
THE TIMES RECORD
TROY, N. Y.**

REPRINTS AVAILABLE

FOOD PACKAGES as housewives see them

The entire three part series is now available in one easy-to-keep form, bound together as a 24-page booklet. Price is \$1.00. For copies write: Readers' Service, Sales Management, 630 Third Ave., New York 17, N. Y.

Sales Management

nually. Though the rolling mill may stand at the top, its list includes: steels that "take" electricity more efficiently; metallic coatings, such as aluminum on steel, to resist corrosion; stainless steels, and a process to convert low-grade taconite ore into high-grade pellets.

"Today," says Logan Johnston, "our research and development work, our sales organization and effectiveness and our advertising expenditures—all are at peak."

The \$3.5 million which Armco is investing in new research facilities is intended "not only to develop new products but to improve processes. . . . In markets, we are going into prefabricated buildings for industry and farms. We are working on ways to put more steel into apartment and office buildings. . . . We got out of prefabricated steel homes — but we may go back into them."

"We don't sell steel. We sell values."


Armco's president talks a lot about "promotional selling." This is a process of turning one-time into permanent customers. "We're concerned, more than ever, with small, as well as large, manufacturers and contractors. The small customer of today can become the large one tomorrow. . . . To earn his faith, we might even dissuade him from buying!"

▶ Johnston does not reveal advertising budgets. But the trend is emphasized by the fact that, despite the 6-month steel strike, Associated Business Publications reports, Armco's expenditures in business publications in 1959 more than doubled—from \$476,000 to \$1.1 million.

Since its first insertion in The Saturday Evening Post in 1914, this company has advertised quite consistently in mass media. But despite the fact that of late "we've increased corporate more than product advertising," as Johnston says, efforts still are directed toward specific problems of specific prospects.

Logan Johnston's first job after graduating from Carnegie Tech was selling cranes and hoists for Yale & Towne on Minnesota's iron ranges. But that was too far from a girl named Janet Rutherford in Pittsburgh. He returned to Pittsburgh, got a full-time job in steel and married her. Logan Johnston still spends half his time traveling. "A good executive," he says, "is always selling." He expects steel to grow at least as fast as the economy — and Armco to grow faster still.

Most of all, he seeks to build the men to meet the opportunities of tomorrow. ♦

An aerial photograph of the Pentagon building in Washington, D.C. The building is a large, five-sided structure with many windows. In the foreground, there are roads with cars and some greenery. A speech bubble is superimposed over the image, containing the text: "Of course I'm sure. I read it in Newsweek".

Of course I'm sure.
I read it
in Newsweek

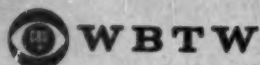
***More key defense officials read Newsweek
than any other newsweekly***

Of the many persons in America's defense establishment, a select group makes the top decisions that may affect your business. To talk to these key officials, put your advertising in Newsweek. Interviews with 572 of the most influential individuals in the National Aeronautics and Space Administration, Army, Air Force, Navy and Office of the Secretary of Defense, reveal that more key defense officials read Newsweek than any other newsweekly. For all the survey facts and figures, including names of those queried, ask the Newsweek office nearest you.

The world-wide newsweekly for communicative people

**A pretty melody
is like Florence**

Florenz Ziegfeld to Florence, South
Carolina—glorifier to glorified! But
Florence doesn't need glorification.
Fifth largest single-station market in the
nation, Florence and WBTW
go together like words and music.



Florence, South Carolina

*Channel 8 • Maximum power • Maximum value
Represented nationally by CBS Tv Spot Sales*



A Jefferson Standard station
affiliated with
WBT and WBTW, Charlotte

ADVERTISING

oil marketers question
radical new approach

Oil marketers can't stop talking about the radical new advertising approach about to be taken by Shell Oil. Some competitors smirk; others fret. One thing is sure—they'll all keep a wary eye on Shell for many months to come.

Shell's product advertising in '61 will represent a sharp break with tradition not only in its solo medium approach but in ad theme and copy as well. Shell's marketing v-p, J. G. Jordan, is convinced that "few oil companies have ever attempted to tell the consumer the real facts about gasoline and oil. We believe that consumers are interested in facts, if presented in a way that they will understand, respect, find credible."

The company's planned departure "from the single-gimmick approach" will call for "newsworthy copy" that makes newspapers "the logical medium" to use. While virtually the entire product budget (around \$15 million) will be pumped into newspapers, the company will continue to invest its institutional ad dollars in national magazines and network TV. . . . Competitors are curious about Shell's new ad theme—and anxious to see if Shell will actually resign its \$3-million-plus outdoor franchise. Most oil companies hiked their outdoor budgets in '60, are still convinced it's a medium they can't do without.

SELLING

institutional ads
that really sell

Note this classic case of an institutional ad campaign that really pre-sells industrial products. International Paper's much-talked-about ad series—"Send Me a Man Who Reads"—achieved these impressive results as a door opener for salesmen: 85% of the salesmen said their customers or prospects commented on the campaign (in Fortune and Reader's Digest); 96% considered the ads helpful; and 71% received inquiries or orders because of them. . . . International, a billion-dollar company, has serviced requests for nearly half a million reprints of the ads, is planning to carry the story of "the man who reads" a step further in '61, and is still smiling broadly over the results of its first fling at a national ad program.

STRATEGY

shifting markets
vs. product strategy

Will other medium-price cars get the ax? Or will most auto makers shrink their middle-range entries into compacts, while keeping the names the same? Market shifts in the auto field are forcing more car makers to make this big decision. . . . Chrysler chose to kill the DeSoto; to make the compact Dodge Dart carry the ball for its faltering middle-price Dodge. Ford suffered through the Edsel fiasco, is now shrinking the price and size of its Mercury. And General Motors offers both regular and compact models in all three of its one-time medium-price lines: Buick, Oldsmobile, Pontiac. . . . With compacts now lapping up a third of the market, there could well be more victims of the medium-price squeeze.

TRAVEL

plush airline clubs
may be shut down

Exec air travel may become a bit less luxurious. Civil Aeronautics Board suspects that airline clubs operated by several carriers, featuring plush lounges at major airports, are illegal because members get favored treatment. The law states: "No air carrier shall make, give or cause any undue preference or advantage to any particular person." CAB reports receiving complaints from non-members denied access to such private retreats. . . . One club-minded airline alone lists 76,000 members. Many are sales execs or other corporate officials, along with Government bigwigs. (Incidentally, at least one CAB member is on the rolls of one club.)

A decision is expected before January as to whether possible illegal aspects of the clubs warrant a full-scale investigation by CAB. Particularly suspect is favoritism to club members in getting last-minute tickets. Unfavorable findings could result in closing of clubs now run by American, Trans World, Pan American and United Air Lines.

FAIR TRADE

retailers can sue
price-cutters too

Manufacturers can now get help in enforcing "fair trade" contracts from those retailers hit by price-cutting competitors. The U.S. Supreme Court has opened the door to enforcement suits by merchants in all fair trade states by refusing to review a precedent-making decision of the Maryland Court of Appeals. Heretofore, only manufacturers could sue to maintain resale prices; often they have been reluctant to do so.

In the test case, a neighborhood drugstore in Maryland sued two competing chains (Dart and Peoples) for selling products of four major drug firms at prices below fair trade minimums. The chains won the first round when a circuit judge denied an injunction on grounds the manufacturers had been lax in enforcing contract minimums, and that a competing druggist could not resort to the courts to police an admitted contract violation involving manufacturers and other retailers. . . . The appellate court reversed that ruling, describing the chains as "two of the most active price-cutters in the area," and finding that the manufacturers had been reasonably diligent in their efforts to maintain contract prices.

MISCELLANY

diet drinks—retail sales—
magazines go abroad—

Another major company enters the diet-drink race: National Dairy Products with its Sealtest 900 Calorie Diet, a liquid food product that's ready to pour and drink. Similar to Borden's Ready Diet 900, the Sealtest product will be sold in food stores and through Sealtest milkmen. . . . Census Bureau is considering a proposal to conduct a 1960 retail trade survey of year-end inventories, annual sales, and number of retail stores operated at year-end. . . . Some 1,300 retail stores sell more than \$5 million a year each. Another 7,000 are in the \$2 million to \$5 million bracket. . . . U.S. consumer and business publications have a total circulation overseas of more than 14.2 million copies an issue, for which their readers pay \$50 million to \$60 million a year, says Magazine Publishers Assn.

"300 inquiries...
27 different industries...
96% from top level executives"

300-27-96



BERMAN SERVICE INC.
PENNSBURG, PENNSYLVANIA

CRS:BAK 9-7971

June 24, 1960

Mr. A. Geoghagan
The Wall Street Journal
1528 Walnut Street
Philadelphia 2, Pennsylvania

Dear Al:

As you know, we assigned The Wall Street Journal the mission of carrying the Berman Service leasing story to the decision makers in business and industry in our areas of operation. I'm sure you will be delighted to know that The Journal has been hitting the target, but good!

From over three hundred inquiries requesting our "Lease With Confidence" brochure, ninety-six percent have been from top level executives. A recent analysis of all inquiries received to date also revealed that twenty-seven different industries had representation.

In addition, our sales representatives have experienced an increase in Berman Service recognition when calling on prospective clients. This recognition has also been a factor in increasing the number of invitations to bid from the areas covered by the Eastern and Midwestern editions of The Journal.

From the above results, we feel our selection of The Wall Street Journal has been a very wise investment and will certainly continue to be a part of Berman's current expansion program.

Sincerely,

Philip L. Bonner
Advertising Manager

THE WALL STREET JOURNAL

Published at: New York, Washington, D.C. and Chicopee Falls, Mass. • Chicago and Cleveland • Dallas • San Francisco

Sales Management's Advertising Weather-vane



Key to Ratings of "Advertising Pressure"

(The Advertising Increases Needed to Capitalize Fully on Current Potentials for Sales)

★ Even maintenance of advertising required.

★★ Normal advertising advance required (5% to 8% increase in budget).

★★★ Large advertising increase required (8% to 14% increase in budget).

★★★★ Extraordinary advertising increase required (more than 14%).

Key to Ratings of Inventory Size

A—\$2 billion and over

B—\$1 billion to \$2 billion

C—\$750 million to \$1 billion

D—\$500 million to \$750 million

E—\$250 million to \$500 million

F—\$100 million to \$250 million

G—Under \$100 million

Size is by value of the industry's inventory as of the present time.

↑ ↓ Arrows indicate increase or decrease in rating over past two months.

Next 2 Mos.	Next 12 Mos.	Next 2 Mos.	Next 12 Mos.	Next 2 Mos.	Next 12 Mos.
★★	↑★★★★	★★	★★	★★	★★★★
★★	↑★★★★	★★	★★★	★★↑	↑★★★★
★★	↑★★★★	★★	★★★	★★	★★★
★★↑	★★★	★★↑	↑★★★★	★★	★★★
★★↑	★★★	★★↑	★★★	★★	↑★★★★
★★↑	↑★★★★	★★	★★★	★★	★★★
★★	★★★★	★★↑	★★★	★★↑	★★
★★	★★★★	★★↑	↑★★★★	★★	★★

Recession Talk Won't Stymie Ad Growth

Both a production step-up and a substantial increase in advertising expenditures can be expected in 1961, according to SM's Advertising Weathervane Board. Despite the continued relatively high inventories generally held in production and distribution channels, businessmen are expected to expand production an average of about 2.7% in 1961 over '60.

Similarly, an average gain of 5.2% is indicated in total U.S. advertising

expenditures for the next 12 months. This would advance the 1961 aggregate advertising level to a new high of around \$12.4 billion, compared with \$11.8 billion estimated for '60 and \$11.1 billion for '59. Such spending totaled \$9.2 billion in '55, \$5.7 billion in '50 and only \$3.4 billion in the first post-war year 1946.

The recession talk of some pessimists is not expected to have a material over-all effect on the vigor-

ous growth trend of advertising expenditures. In fact, there is a widespread and growing reassurance that the nation's resourceful and imaginative advertising activity has been a top essential development characteristic of our thriving economic system.

The scope of the 1961 job indicated for advertising promotion is evident in the fact that the Weathervane Board expects practically no letup in the pace of spending for new plants and equipment to expand ca-

Next 2 Mos.	Next 12 Mos.	Next 2 Mos.	Next 12 Mos.	Next 2 Mos.	Next 12 Mos.
★★★	★★★★★	★★★	★★★	★★★	★★
★★	★★★	★★	★★★★★	★★	★★★
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capacity—and such expanded facilities will come on top of an already huge national production machine and high current inventories of manufacturers and distributors, estimated at \$93.5 billion—\$4 billion above the figure of a year ago.

Despite the extensive spread of gloom through 1960, businessmen by and large remained convinced of the necessity of expanding and modernizing their plants and equipment, and the year is winding up as one of the biggest expansion years in history. This, of course, increases the nation's output potential and places further pressure on its distributional machine. This machine, which today is more influential than production in maintaining a prosperous national economy, is expected to achieve a still wider market for peacetime products in 1961. And it is expected to intensify such achievement in the years ahead, regardless of whether or not industry enlarges its flow of armaments.

The incoming Administration, with its "move-ahead" philosophy, will probably push for greater production. Increased employment and growth are simply concomitant with a larger

flow of goods, but these goods won't move adequately and the nation will not "move ahead" unless essential advertising and selling activity does even more than the traditionally fine efforts of the past have done.

The magnitude of potential output already is staggering. All manufacturing in this country recently operated at only 80% of capacity, and, with all the efficiencies of newer machinery and increased labor productivity, output has been large enough to give us an inventory \$4 billion higher than it was a year ago. Now, this big, fertile, producing giant has grown to the extent of about \$36 billion more of new plant and equipment for the year 1960.

For next year, despite supposed discouragement of some businessmen, the board finds very little decline indicated for expansion plans; it looks as if about \$35 billion more will be tacked on to present factory facilities, and, accordingly, a substantial amount more of goods for advertisers to distribute. A small, but increasing, amount of such spending for new plant and equipment will be made abroad, but, even so, many goods

produced overseas by American interests will find their way back here to be distributed.

In essence, then, the fire of excitement that burned brightly at the beginning of '60 over the roaring decade ahead is still alive. Businessmen remain convinced that a greatly expanded plant is going to be necessary to handle the vast needs which will arise from marriages of the huge generation of World-War-II children now approaching adulthood.

The steady pull of long-range dynamic influences is expected to make itself felt increasingly. Particularly influential are the nation's heavy research and development expenditures, since they result in improved, more attractive older products, as well as new products. Last year's U.S. expenditures for research and development totaled \$11.8 billion (more than 11 times the '41 total) and such expenditures boomed up to more than \$13 billion in the "slow-down" year 1960. For next year, the board foresees a further increase to approximately \$14.3 billion.

Many companies' products today are radically different from their

Now—EASTERN'S Flying Freighters offer

OVERNIGHT DELIVERY

New York—Miami—San Juan

New York—Atlanta—New Orleans—Mobile—Houston

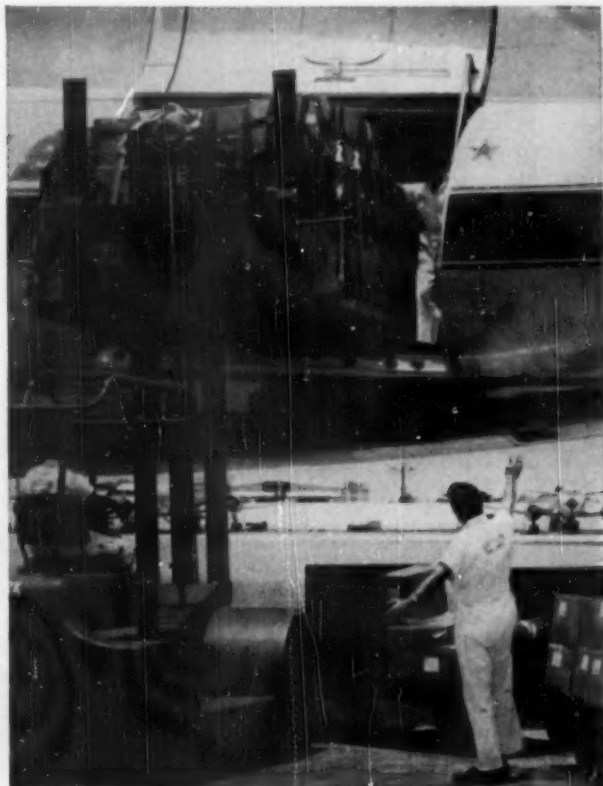
Chicago—Atlanta—Miami—San Juan

- Reserved space on every Freighter flight.
- Pressurized and temperature-controlled.
- Flights daily except Saturday and Sunday nights.
- Pickup and delivery service available.

In addition, Eastern offers freight space on over 400 daily passenger flights—including DC 8-B Jets and Prop-Jet Electras—to 128 cities in the United States, Canada, Bermuda, Puerto Rico and Mexico.

For Information and Freight Reservations, call your Freight Forwarder, Cargo Agent or Eastern Air Lines.

EASTERN AIR LINES





How to stay on top of your job

568 BUSINESS FIRMS PURCHASED 8,524 REPRINTS OF THIS USEFUL REPORT IN ONE MONTH

"Every executive, no matter what his rank, must organize his job to function efficiently," wrote *Nation's Business* editors in a September feature, "How to Stay on Top of Your Job." Within the month, over 500 business firms had purchased 8,524 reprints of the article. Every week the editors receive from three to four hundred such letters—response unparalleled in the management magazine field. It's one reason why advertisers placed 10% more advertising pages this year than last in **Nation's Business**.



ADVERTISING HEADQUARTERS—711 THIRD AVENUE—NEW YORK 17, NEW YORK

The Reynolds Metals Company asked if we could design a compact, low cost Slide-Chart that would explain simply and accurately how to roast meat or poultry in Reynolds Wrap. Ordinary cookbooks require complex calculations.

Within days we came up with a 2" x 5" Slide-Chart that gives the answer with one move of the slide! Over six million have been ordered and are being distributed to dealers. And we produced the six million in seven weeks for \$60,000.00 less than the client anticipated! Why not drop us a line and find out how Perrygraf can put your product's facts at the fingertips?



Perrygraf Slide-Charts are precision made in facilities geared to turning out hundreds—or millions. In any size order, delivery and prices will amaze you.

Here's how you can get this modern inexpensive sales tool for your company. Give us a word picture of the job your Slide-Chart is to perform. Give us necessary data sheets or catalog pages if that's convenient. Tell us who will use the Slide-Chart and what quantities you will need. No obligation, of course. We'll tell you how your Slide-Chart can be made, what it will cost and we'll show you comparable jobs we've done.

FREE—36 page, full color booklet showing how Perrygraf Slide-Charts can work for you. 122 case histories. Write for free copy.



product facts at the fingertips

150-E S. Barrington Ave., L. A. 49, Cal.
1500-E Madison St., Maywood, Ill.



products of only a decade ago. More advertising is needed constantly to educate the consumer on these advances and stimulate him to buy.

Advertisers planning their '61 campaigns should find encouragement in the board's belief that in the new year disposable personal income may be about 4% higher than in '60. While expected to start slowly, with slowdown and recession talk still prevailing, the year is expected to progress upward and burgeon into new high activity in the later months.

Not only will consumers be in a good position to buy, with current incomes high and savings reserves high, but businessmen also will have large buying power. True, profits are being squeezed, principally by rising labor costs, but a relatively good profit showing on the full year 1961 is still anticipated. Meanwhile, the very strong financial condition of American business (with liquid assets at a new high) will maintain corporate buying power at a favorable level. Net working capital of corporations, representing current assets minus current liabilities, now is estimated at more than \$135 billion, compared with \$129 billion at the beginning of 1960.

► SM's Advertising Weathervane reflects the influences of all the preceding factors, as well as a wide variety of others bearing on advertising pressure ratings for each of the industries tabulated here. The ratings, which can readily be translated by referring to the key at the top of the page, are based on a comprehensive range of data available to a carefully selected panel of 89 authorities. Wholly impartial, this Advertising Weathervane Board includes trade analysts in the Department of Commerce, Census Bureau, Department of Labor, Federal Reserve Board and other Government agencies, as well as in trade associations, financial institutions, universities and other private organizations. The ratings are developed from the consensus of these experts, who evaluate and draw conclusions based on the following weights for Advertising Weathervane ratings, using a universe of 100:

Current Production Capacity	
and Import Potentials	20%
Expansion Projections and	
New Products	25
Current Inventories	
and Sales	20
Public Needs for Products and	
Potential Buying Power	20
Ability of Industry to Finance	
Increased Advertising	10
Industry Labor Productivity	5



How to reduce guesswork in advertising

The reduction of guesswork starts with a painstaking analysis of the advertiser's sales experience. But there are definite limits here. Call reports, or the salesmen's theories as to why some people buy and others don't, can be misleading.

Confusing, anyway. Surely you've sat in sales meetings where each man expressed a different, but equally positive idea of the *one best* sales approach!

Today there is a new and inexpensive way to sharpen the common denominators of your best sales approaches as they apply to each of the different fields you sell. It is a highly specialized type of personal sales investigation which we have developed over a period of many years.

We call it "Ditch-Digging" research. It digs underneath the reasons your prospects give for not buying. Its approach is unbiased; we get a client's potential customers to talk about things they normally wouldn't tell his salesmen. It goes beyond the scope of most "depth interviewing" in that every one of our investigators has had considerable sales experience. Thus you are well assured that the work we do for you will be handled tactfully and with genuine "sales sense."

And the chances are very good that their experienced sales perception will help you crystallize the conditions to be met in each field; will materially reduce the guesswork that hampers advertising effectiveness.

Sometimes, naturally, this work is of a highly confidential nature. But there are many cases we can tell you about, if you'd like to hear how other companies have used Hopper Company Sales Investigations to get "Ditch-Digging Advertising That Sells by Helping People Buy."

The Schuyler Hopper Co., Market Research, Sales Promotion, Advertising, Twelve East Forty-first Street, New York 17, N. Y., LE 2-3135



This is one key club you don't want to join

MEDISIT (*Man, Every Display I Ship Is Trouble*)

If you *already* have, however, it's time to retire your membership! Put an end to late display arrivals, damage in transit, design limitations, and time-wasting tie-ups of your key personnel . . . use North American Van Lines' comprehensive display shipping service.

Your display is a highly specialized sales tool . . . it's not freight! It deserves, really demands, North American's specialized, personal handling. Your display arrives on time, gets in faster . . . no uncrating, no complicated assembly, no crate waiting at show's end. You put on your hat, North American does the rest. It saves dollars, time and worry.

To find out more about the advantages of this display shipping service, ask your traffic manager or write our world headquarters in Fort Wayne.

NORTH AMERICAN VAN LINES

WORLD WIDE MOVERS

Dept. 24-5, Fort Wayne, Indiana



How to Apply and Use

SIC

Data

Much of the pioneering in industry that has led to the ever increasing application of the Standard Industrial Classification codes has been accomplished by business publications.

It is in recognition of their dedicated work that we have asked six publishing houses, whose publications range across industry, to describe the benefits of the SIC system and to point out fresh areas for development.

Their interpretations will help you if (1) you are a manufacturer who wants to "get his feet wet" in this system of identifying markets, (2) you are well started in using SIC but wish to enlarge your knowledge, and (3) you are a sophisticated user of SIC and seek the ideas of other sophisticated users.

'More Sales at a Lower Cost per Sale'

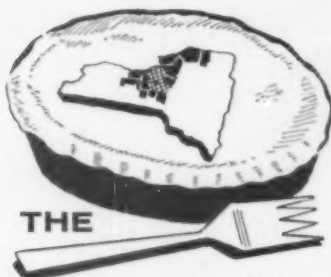
**By JOHN H. KOFRON,
Director of Research
Chilton Co.**

Here is an example of a company with four marketing objectives and how SIC data aided in their attainment. The objectives were:

1. To establish product requirements
2. To determine market potential by industry and area
3. To lay out sales territories
4. To obtain sales leads

As a first step, marketing officials analyzed previous sales records, and consulted with district sales managers. Then Iron Age's Basic Metalworking Data was consulted to determine the number of plants in each industrial area, and in the country, that could be considered potential customers. Out of this a list of over 100 4-digit SIC groups of potential customers was drawn up.

A survey was then conducted to



THE WHOLE PIE! is yours when you consider **ALL THE MARKET!**

The SYRACUSE MARKET . . . all of it is 15 counties-big (one-third the total area of New York State). Don't settle for less!

The whole Syracuse Market is delivered only one effective, low cost way—

The SYRACUSE NEWSPAPERS

THIS WHOLE VITAL
MARKET HAS
TO BE IN
YOUR AD
PLAN!

GET THE DETAILS—



CIRCULATION, influence-power, and full market measurement from Moloney, Regan & Schmitt

The SYRACUSE NEWSPAPERS

The Herald-Journal (evening)
The Post-Standard (morning)
The Post-Standard and Herald-American (Sunday)

Sound Off . . .

Much of Sales Management's editorial planning is ignited by subscribers themselves, through their letters-to-the-editors. We welcome not only your reaction to SM articles, but invite you to tell us what subjects you'd like to see us tackle.

determine the number of concerns in each industry that could qualify as potential customers, and the approximate dollar volume each concern might be expected to account for. Survey replies were arranged by geographic area and by SIC. Specific information learned through the survey included data on size of plant, principal products, number and size of machines used, whether these machines were hand operated or automatic, the type of material being worked, and the names and titles of purchase decision executives.

Using SIC with data collected through the survey, the company then proceeded to compute potentials by area. Here is an example of how they did it for the Chicago area: In SIC group 3543 — Cutting Tools, Gauges, Dies, Accessories—there are 80 plants in the Chicago area. The survey indicated that 38%, or 30 of these plants, were in the market for the company's product. This figure then became the potential market for this company for SIC group 3543 in the Chicago area. Similar calculations were then made for all SIC groups to obtain the total potential for the Chicago industrial area, and by a similar process the potential for the country as a whole was computed.

With these results, and the knowledge of industrial and national potentials, the company was able to realign its sales effort. In some cases the sales staff was increased or distributors were replaced by company salesmen. In others, salesmen were replaced by distributors. Because the district office salesmen had more detailed information at their disposal, the net result was fewer wasted calls and more sales at a lower cost per sale.

If the SIC system had not been available, the above marketing program would have been next to impossible. To review briefly, SIC was used:

1. To code present customer list
2. To classify the returns
3. To analyze the responding plants
4. To locate comparable plants
5. To project the sample for areas and a national basis

A second Chilton publication, Electronic Industries, felt it necessary to establish its own system of classifying manufacturers in the market it serves. In spite of revisions in the code since its inception, SIC was held to be inadequate to classify establishments in this industry. Electronic Industries developed an EIC (Electronic Industry Classification) code to account for the many classes of electronic com-

ponents not included in the Government SIC. The need for this classification should be clear when it is realized that the entire electronic industry is contained within 12 SIC groups, and that many major classes of assembled electronic equipment are grouped indiscriminately with non-electronic products or with other industries. The fact that manufacturing concerns are classified only by their major product produced was another condition that helped bring about Electronic Industries' own code system.

The EIC system thus provides a detailed breakdown of specific product classifications—3,300 classifications versus 12 SIC groups. Plants, moreover, are classified according to all products produced.

EIC can be a valuable marketing tool when used properly. By itself, like SIC, it is merely a means of classification. Used with other data, it can be a tool for planning and directing marketing effort. A manufacturer of semiconductors, for example, was able to determine product requirements for one of the items in his line by isolating the plants within the electronic industry that were using zener diodes. The EIC was also used to set up a list of future sales prospects. By surveying prospective customers, the company was able to pinpoint and measure its potential market as well as the product specifications needed to satisfy that market.

'How SIC Can Be Applied to Advertising Problems'

By S. F. MARINO,
Business Manager,
Steel

Three of the most important uses of SIC in industrial advertising are: (1) allocating advertising budgets by industries, (2) determining industries which should receive special marketing effort because of the high concentration of sales opportunity, and (3) selecting businesspapers for advertising schedules.

1. Allocating advertising budgets by industries.

For help in deciding how advertising budgets should be allocated, the industrial marketer should be furnished with sales analysis reports which disclose the present sales pattern in terms of the dollar volume sold to various SIC markets. Steel's new Marketing Work File contains special Market Analysis Forms designed for this purpose. The forms also provide a method of determining the potential market by SIC, independently of internal information. By

New facts about advertising values in the rubber market

Now—Rubber World offers...

...greater coverage—over 85% direct (a) verified circulation, more than the total circulation of the second publication

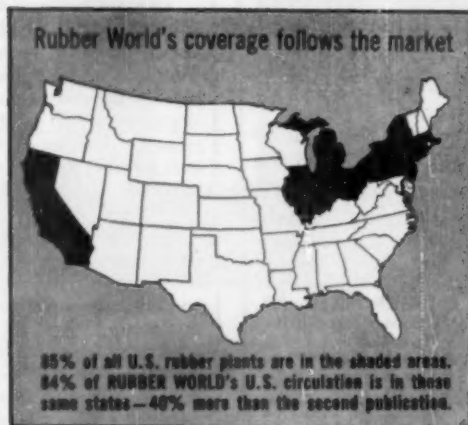
...lower cost per thousand

...editorial authority

In the rubber market today, there are twice as many companies, operating twice as many plants, making twice as many products with twice as much sales value as there were just ten years ago.

RUBBER WORLD keeps pace with the growing rubber market.

Today **RUBBER WORLD's** total circulation of 5,655 contrasts with the 4,799 of the second publication. And now, over 85%—4,821 of **RUBBER WORLD's** circulation is verified under "(a) direct communication to the publisher."



Rubber World covers the buying power

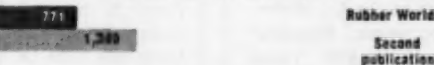
RUBBER PRODUCT MANUFACTURERS



SUPPLIERS



U.S. AGENCIES, CONSULTANTS, LIBRARIES, ETC.



Editorial Quality

RUBBER WORLD's editor and executive editor are graduate chemical engineers and boast years of practical experience in the industry through actual work with rubber companies and research organizations.

In addition—ten of the rubber industry's leading technologists act as an editorial advisory board to help **RUBBER WORLD** maintain its editorial excellence.

Lower cost per thousand

Your sales messages not only reach more of the real buying power in the rubber industry in an editorial atmosphere that gains them sympathetic readership—but at a lower cost per thousand than the second publication in the field.

CIRCULATION	PUBLICATION	COST PER M*
5,655	Rubber World	\$46.86
4,799	Second publication	\$58.34

*Based on 12 time base full page rates

Evidence of value

That these values pay off is evidenced by the fact that many of the leading companies in the industry have been long-time, consistent advertisers in **RUBBER WORLD**; two — Farrel-Birmingham and John Royle & Sons — since 1890. In all, fifteen of these companies have been advertisers for 24 years or more, fourteen of these 32 years or more, nine over 40 years.

For greater coverage—lower cost per thousand—editorial authority—

RUBBER WORLD

A Bill Brothers Publication

McGraw-Hill

630 Third Avenue, New York 17, New York

-SM-

AT YOUR SERVICE

A classified list of professional firms which serve sales and marketing executives

Sales & Exec. Training

**HOW TO
MAKE YOUR
SALESMEN &
SUPERVISORS
MORE
EFFECTIVE**

Top-level salesmen produce 3 times as much volume as low-level men, and two times middle-level men. You can put your salesmen into the top-level by training in the techniques of motivation. Maintain sales at top-level by improving leadership skills of your sales supervisors.

THE EXECUTIVES INSTITUTE
148 East 48th St., New York 17, N. Y.

Public Relations

D. PARKE GIBSON
PUBLIC RELATIONS
Negro Market Counsel and Programming
2521 Seventh Avenue
NEW YORK 39, NEW YORK
Write for Confidential
Report on Negro Market

Research Agencies

DETERMINE YOUR SALES POTENTIALS

Scientifically proven forecasting methods will indicate your sales 1 year or more ahead. Currently used by many of the country's leading corporations. Allow us to send you, without obligation, our brochure on Sales Forecasting.

J. CARVEL LANGE, Inc.
Subsidiary of
Industrial Commodity Corporation—27th Year
OXford 7-1262
122 East 42nd St., New York 17, N. Y.

MARKET STATISTICS, INC.

CONSULTANTS TO
SALES MANAGEMENT.

Specialists in regional economy analysis, sales forecasting, setting sales quotas.

630 THIRD AVE.,
NEW YORK 17, N. Y.

Other Services

EVER READY LABEL CORPORATION

357 Cortlandt St. • Belleville 9, N. J.

Ever Ready for EVERY type of Label — Red-E-Stik® pressure-sensitive, caution, shipping, spot carbon, pin-feed "Automatabels", foil, Metal-Cal, and hundreds of other kinds

Leaders in the Label Business
for almost 50 years.

In New York City, Call PLaza 1-3840
Out of New York, Call PLYmouth 9-5500



**Theatre Tickets
for Business Use**

Better Customer Relations
Theatres — Sports — Music
Equipped to handle your ticket
orders—2 to 10,000

Leblang's Theatre Tickets, Inc.
224 W. 47th St., New York City 36
PLaza 7-2300
Industrial Division—Mr. "V"
Send For Fact Sheet

Subscriber Service

Subscribers buy more than one million pages of reprints yearly, through **Sales Management's Readers' Service Bureau**. In addition, RS stands ready to help you research back issues of **SM** on any classification of subject matter we have published. Write: **Sales Management, Readers' Service Bureau**, 630 Third Ave., New York 17, N. Y.

comparing the results of these two analyses, the people charged with the responsibility of allocating budgets can determine how the budget should be divided among industry markets. The actual split up of the budget depends on the company objectives set after a preliminary investigation.

The industry approach to the allocation of the advertising budget would seem the most applicable because the basic method used to reach the market — the businesspaper press — is also organized, for the most part, on an industry basis. It is also quite common to have direct mail campaigns planned and carried out on an industry basis. A geographic allocation might be desirable, too. Steel's Continuing Census of Metalworking Plants counts the number of metalworking plants employing 20 or more in each state, and defines them by SIC group and by employment size. By combining this information with your company's internal sales records, you can weigh your actual sales performance in an area against the potential in the area. Those areas in which the share of market is unduly small can be allocated an arbitrary amount of the budget with the objective of increasing the share of market.

This entire operation depends on the employment of SIC. First, the customer list must be coded by SIC for sales analysis purposes, and then the market determination, carried out independently of internal information, must be done on an SIC basis so that it is possible to make meaningful comparisons.

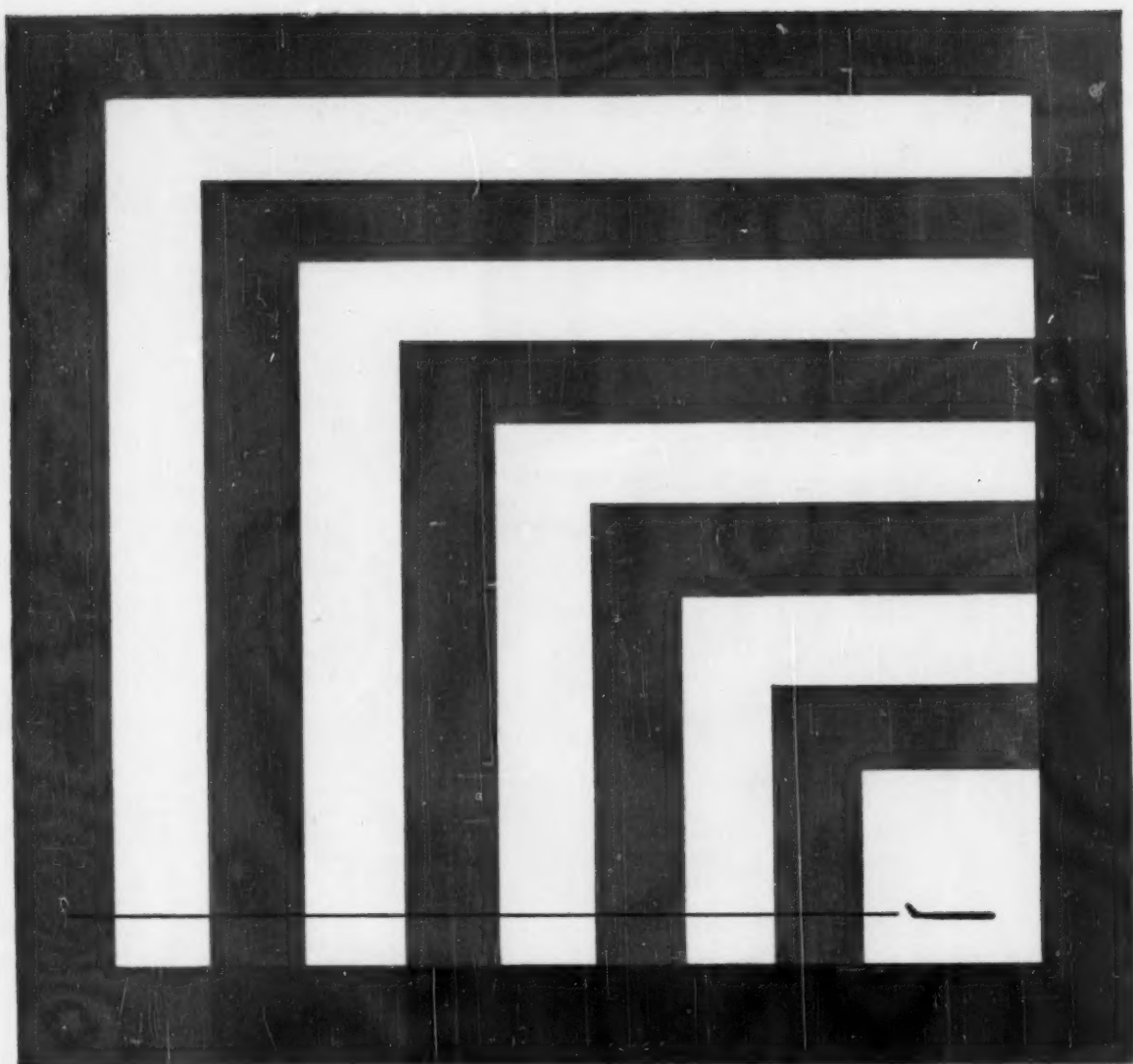
2. Determining industries to receive special marketing effort.

The industrial marketer should be continuously searching out those industries which show a high concentration of sales opportunity. These industries are the ones that will produce a much greater than average volume of sales when only an average amount of marketing effort is invested.

While such exploration could be done without employing SIC, its use greatly facilitates the entire process. It would be quite meaningful to know that 70% of all inquiries received as a result of an advertisement came from plants in SIC 3391 — the manufacturers of iron and steel forgings.

Another method is the use of a mail questionnaire. In this case, a cross section of industry is selected from a publishers' census and the questionnaire is pre-coded by 4-digit SIC classes before being mailed. The returns can then be analyzed by industry groups to form a basis for future action.

(continued on page 66)



5 weekly
all cargo flights
to Europe
from New York

Plus daily nonstop Jet Cargo Service New York to Frankfurt.

Latest L1649 Superstar Cargo Constellations.

More frequent flights ■ More loading capacity ■ Faster connections to Middle and Far East ■ Lowest possible rates. Unexcelled

 **SUPERCARGO**  Service.

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 **LUFTHANSA**
GERMAN AIRLINES

Air Cargo Division, 410 Park Ave.
New York 22, N.Y., PLaza 9-3300

Offices in Principal Cities of the U.S. and Canada

Sales Management December 16, 1960 65

3. Selecting businesspapers for advertising schedules.

To do an effective job of selling or helping to sell a product or service by means of advertising in businesspapers, an industrial marketer attempts to do the following:

(a) Determine the types of plants that are now customers or are prospective customers for the product or service. These should be classified and identified according to SIC.

(b) Determine the relative purchasing importance of these plants.

(c) Discover who the men are, by

title, who influence the purchase of the product or service by these plants.

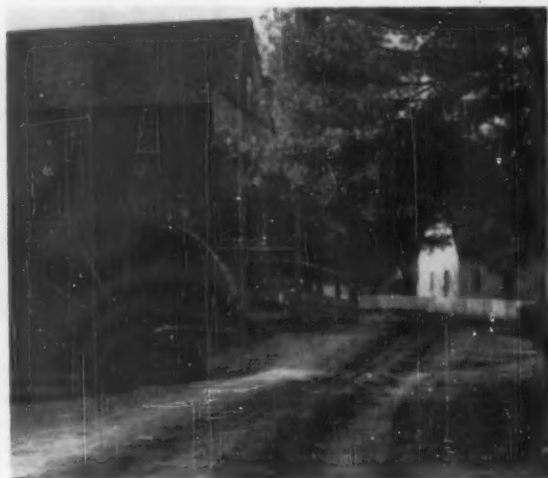
(d) Buy appropriate space in those businesspapers which are being read by these buying influences so that the advertising to be run will have the best audience possible for the money invested.

(e) Create an ad which will cause these buying influences to follow a course of action or thinking which is desired by the advertiser.

No one really buys circulation. Space buyers purchase readership. Therefore, it is important that in addition

to the quantitative aspects of circulation on an SIC basis, the qualitative side—readership—be considered.

Although plants are the buying units in the manufacturing market, it should be remembered that people are the buying influences. Industrial buying is typified by multiple buying influences. Therefore, sole reliance should not be placed on the number of buying units or plants covered by circulation. An evaluation should also be made of the number of copies of a publication going into each SIC industry. In like manner, it is important to take a look at the average number of copies going into each plant in each of the SIC classes.



THIS IS WORCESTER...

the 2nd largest market in Massachusetts

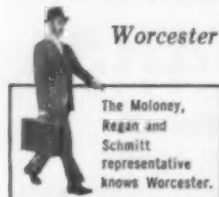
Old Sturbridge Village, a national, educational landmark since its inception in 1946, successfully recaptures the entire life and atmosphere of an early 19th century New England town. Nearly 250,000 visitors a year, including over 30,000 students view at first hand a 200 acre town complete with homes, shops, mills, meeting houses, a general store and tavern — all of the 1790-1840 vintage.

Busy artisans and craftsmen pursue an amazing variety of occupations in authentic imitation of their forbears. Miller, weaver, metalsmith, cabinet maker and many others use two century old tools and equipment to demonstrate down to the smallest detail how the early New England craftsman earned his living.

This background of true craftsmanship is continuously reflected in Metropolitan Worcester County's position as the 2nd largest market in Massachusetts,* and one of the nation's "Top 50" markets — 43rd in spendable income, 48th in population — an important BILLION DOLLAR county.

*Source: Sales Management, 1960

Worcester stands for big business, yours included.



The Moloney,
Regan and
Schmitt
representative
knows Worcester.

Circulation: Daily 155,015 — Sunday 103,332

WORCESTER TELEGRAM

The Evening Gazette

SUNDAY TELEGRAM

Owners of Radio Stations
WTAG and WTAG-FM

WORCESTER, MASSACHUSETTS

'The Ideal Application . . . Establishes a Sales Index'

By ARTHUR H. DIX

Vice President in charge of Research
Conover-Mast Publications

The ideal application of SIC employment figures is in a case where it is possible to establish a sales index for a given product. Usually this works best in the case of expendable products—those that are consumed—as for example, cutting tools, abrasives, lubricating oils, mechanical rubber goods, and even the lighter forms of capital goods, such as portable tools, etc.

This is the formula: You find out how much annual purchases are in an SIC group, per thousand employees, and then with the aid of SIC employment figures, you can work out a sales potential for any metropolitan area, state, region, or any other division.

Mill & Factory issues an "Industrial Marketing Map" showing the 294 major industrial counties (those having 10,000 or more manufacturing employment) representing about 80% of the national industrial market, using employment as a yardstick.

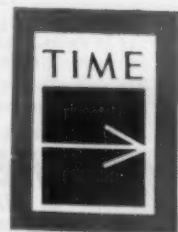
The same data can be used in determining how much of the market per capital goods is in each area. But of course, in the case of capital goods, one year may be high and another may be low, depending on business. In the case of consumable items, the market is much steadier from year to year.

It will pay the manufacturer to be able to say to a distributor (or a manufacturer's representative, or a direct salesman), "Now, there's \$750,000 worth of our kind of product bought annually in your territory. We know, because we measured it. Your fair share is \$410,000."

Not many manufacturers do that. Why not? Isn't it human nature to



\$6,260



when picking **BIG NEWSPAPER MARKETS**


— you find only eight U.S. cities with daily newspapers of more circulation than The Milwaukee Journal: New York—Chicago—Los Angeles—Detroit—Philadelphia—St. Louis—Washington—Cleveland (combinations excluded.)

And in none of the markets as big as Milwaukee can you get such complete one-paper coverage.

THE MILWAUKEE JOURNAL

Read in 9 of 10 Metro Area homes
Member of Million Market Newspapers, Inc.

EVERY HOUR NEW YORK TO WASHINGTON



**AT
25
MINUTES
AFTER
EVERY
HOUR**

BETWEEN 7:25 AM AND
11:25 PM FROM LAGUARDIA
(except 10:25 PM)

Use your Diners' Club or
Carte Blanche card
Call a travel agent or

NORTHEAST AIRLINES

do better if a target is set up—if we know what's par for the course? Many manufacturers say the reason they don't establish sales goals is because they think distributors (or manufacturers' representatives, or direct salesmen) don't like quotas.

What's the reason? Inertia is only a partial answer. Mixed in is doubtless a feeling that selling is too complex to yield to arithmetic—a distrust of figures—a feeling that calculating about how much business each territory should yield is tempting fate.

Perhaps something else is involved, a fear that market measurement will reveal the need for making some changes—changes that are often unpleasant to make. Maybe the current high brass themselves were beating the bushes for business twenty years ago, and nostalgically they like to think of the market today as it was then.

Maybe the big boss himself appointed a distributor in a southern California territory some years ago—or gave a direct salesman the east Texas territory. And maybe each still has his original territory, despite the fact that east Texas is about five times as important industrially today as it was in pre-war days, and southern California is about eight times as big a market today as it was then.

Cutting territories is painful. Sales people don't like being uprooted and replanted a thousand miles or so away. Decisions like these are uncomfortable to make, but ultimately they are hardly as distressing as seeing a less sensitive competitor capture a searing market simply because he had someone on the scene to rake in the orders.

The fear that territorial market measurement will reveal the need for changes in the sales set-up is well grounded. Revolutionary changes have taken place in the distribution of the industrial market. Using employment as a yardstick, and it's a fairly good one, today Florida is more important industrially than Rhode Island. More people work in Texas factories than in Connecticut's. Before World War I New England was about twice as important industrially as the Pacific Coast. But today more of your sales, and more of your sales machinery, should be on the Coast than in New England—if you sell the broad industrial market.

'Accent on Scientific Marketing'

By **TED RICKARD**
Director, Market Development
Haywood Publishing Co.

We have determined the consumption of corrugated packaging by using

industry, by geographic region, and by SIC group. We soon will do the same on all other packaging materials.

Now we are working on pinpointing those using establishments by 4-digit SIC, by location.

When the study is completed for each type of packaging used by U.S. industry, we will not only have thoroughly and demonstrably market-oriented circulation control, but we will have established a detailed measurement of packaging's end-use markets in a form capable of being kept up to date.

In the early 1950's we found that the SIC system presented a ready-made means by which we could classify large amounts of information in usable form. In our case, the SIC applied to data on packaging from the Census of Manufacturers enabled us to guide our controlled circulation.

As the 1950's went on, however, we found ourselves operating more and more in a business climate of over-intensifying accent on scientific marketing. This accent seems to be "peaking" now and lies behind our current corporate program to orient our entire operation to sound market data analysis. Thus the SIC codes become more than handy tools—they literally have become the language by which market data is made comprehensible and workable.

► When we first started using SIC to classify the circulation of our publications, we installed IBM data processing equipment.

What started as a simple, though substantial, gain in operating efficiency has now become an integral part of our publishing operation. It is no longer enough for us to get and hold responsible buying readership in our magazines. We have to prove exactly the extent to which we are covering the present and potential market for the advertiser's product. To do this correctly, we have to know the market thoroughly—both the market for the particular advertiser's product and the total U.S. industrial market, inasmuch as the field of our two packaging publications—Consumer Packaging and Industrial Packaging—affects all U.S. industry.

When our program is complete we will have in processable form specific information on each major U.S. industrial establishment, detailing the product produced (and packaged), size of the establishment, type of packaging used, and an indication (via a weighted index system) of the relative importance of that establishment in the total market for a specific type of packaging.

The problems of dual-purpose data



\$4,780



compilation are obvious: In every given instance we are compiling specifics—identity, size, SIC code for each establishment. In the same instance, we are also compiling relative values—relative importance of each type of packaging in the operations of that establishment.

When it is completed—and we realistically anticipate the program will require several years to complete—we will have a complete and accurate picture of the entire market for packaging. The intensive detail of this picture will not only enable us to provide more nearly perfect market control of our publications' circulations, but, we anticipate that it will also create a brand new service of real value to companies marketing packaging materials, equipment and supplies.

'A Common Statistical Language'

By R. W. BECHTEL
Publishing Director
Dun & Bradstreet, Inc.

Despite the 15-year existence of the Standard Industrial Classification code it is surprising that so simple a device remains a mystery to so many marketers, and that the relatively few companies that do understand it fail to take full advantage of it.

Years ago when industrial marketing was a less complex matter, as much purchasing as it was selling, the consumer marketer was already using as guides such data as incomes and job classification and urban vs. rural population, which could then be related to Government-released statistics. Younger, but in existence long enough to have proved useful

despite its recognized faults, SIC offers comparable opportunity to the industrial marketer.

The virtues of SIC are that it provides a common statistical language, with a single set of definitions that are gradually coming to be understood, and that it provides a basis for comparison with source data such as Census statistics. Unless, then, the individual marketer has developed a better and proved way to classify customers and prospects—and can establish industry totals on a comparable basis—he is well advised to use SIC.

► Dun & Bradstreet, as well as other Government and commercial research and publishing organizations, has worked extensively to classify information according to SIC, so that the marketer could make effective use of this common statistical language. Starting in 1950, SIC codes were assigned to each of the 3 million names in the Reference Book, using the 1945 codes. During 1960 the Reference Book is being converted to the 1957 revised code, so that users can relate information to the Census of Business statistics which are being released this year on the basis of the revised code.

Since 1959, when D&B began publishing specialized directories primarily for marketing use, increased attention has been focused on SIC. In the Million Dollar Directory, a marketing guide to 21,000 U.S. businesses with net worth in excess of \$1 million, up to seven SIC's are assigned to the activities of listed companies, providing the first treatment in depth of SIC.

In the Metalworking Directory, a marketing guide to 31,000 metalworking plants with 20 or more em-

ployees, multiple SIC's are also assigned to a single plant's activities where applicable. In both of these directories, business listings appearing in the main section of the directory are also shown under SIC category; and in the Metalworking Directory, industry statistics are provided separately by county for each of over 180 SIC codes encompassed by the metalworking industry.

In order to tap most effectively the wealth of information in SIC use, the marketer needs to add to each classified account some indication of size; and he must further make these basic assumptions, which are supported by professional marketing experience:

1. That consumption potential follows industry lines, since businesses in the same industry produce similar products from similar materials.

2. That consumption potential is proportionate to size, whether size be measured in terms of numbers of employees, sales volume, area occupied, or value of product added.

When this has been done, the marketer is in position to produce a variety of useful information and to perform a variety of jobs using SIC. While the variations in techniques preclude outlining detailed procedures, the following list of uses of SIC shows its versatility in marketing as well as in other business functions:

In market research

- determining average consumption of products by industry
- determining U.S. market potential by industry
- determining company share of market
- determining potential and share of market by sales territory

In marketing management

- determining sales manpower per territory
- determining sales territory boundaries
- establishing sales quotas
- checking incentive compensation
- appraising territory sales performance
- creating prospect lists by industry and importance
- selecting advertising media
- creating files of product applications
- directing new product development
- determining pricing policies

In other management areas

- making profitability studies



"You and your darn pep talks!"



\$3,835



3RD LARGEST
MARKET IN
ILLINOIS-IOWA



THE NATION'S

**57th
INDUSTRIAL
MARKET***

Data recently compiled by the analysis of Dun's Review reveal that the Quad-City area ranks 57th in size by the accepted standard of value added by manufacture. Over 500 firms contribute to this volume.

*Dun's Review, July, 1960

65% of employment is on Illinois side.

ONE OF THE

**FIRST
100
MARKETS**

QUAD-CITIES LARGEST COMBINED DAILY CIRCULATION

**ROCK ISLAND ARGUS
and
MOLINE DISPATCH**

REPRESENTED BY ALLEN-KLAPP CO.

LOOKING FOR SALES MANAGERIAL TALENT?

If you have a top-drawer sales executive job to offer, and wish to concentrate on top-drawer prospects, use display space in *Sales Management* magazine.

Space this size would cost \$163.

For rates on space in other units, write:

Randy Brown

Executive Vice-President

Sales Management

630 Third Ave.,

New York 17, N. Y.

making accounts receivable analyses

identifying sources of supply relating production to sales by use-industry groups

'Using SIC in Marketing'

By HUGH BRITTON

Director of Census

McGraw Hill Publishing Co.

The Standard Industrial Classification is designed as a general purpose system for gathering together establishments and presenting significant statistics about them. Its primary purpose is to enable various agencies of the Federal Government to express their statistical output in a common language.

The design and purpose of SIC have important influence on the use of the system in marketing; they should never be overlooked.

Broad classifications, not confined to homogeneous groups of products, do little harm when a statistical picture is being presented; in fact, without them publication of much of the very useful data in literature of the Census Bureau, the Bureau of Old Age and Survivors Insurance, the Bureau of Labor Statistics would be impossible under the law. But marketers are interested in specifics—goods must be sold to people, not to statistical averages. Often, therefore, a particular marketer must use individual variations of the system to make it usable.

SIC is a decimal classification, just as is the Dewey Decimal system which makes it possible to find the books you want in any library. As in the Dewey Decimal system, additional digits create sub-classes and subdivisions of sub-classes. The Bureau of Census, in presenting product statistics in the Census of Manufactures, uses the 5-digit "product class" and the 7-digit "product" to present quantity and value of shipment statistics but not for the input data—number or size of establishments, value of materials, man-hours worked, etc.

In the McGraw-Hill Census, we use an extra digit to split classifications according to our needs. This fifth digit has nothing in common with the "product class" mentioned above; we assign it ourselves, as we need it, to better define the places where we must sell subscriptions to our publications. Many companies follow similar practices. The great advantage of the "extra digit" is that additional detailed information can be recorded without sacrificing comparability with Government and other statistics which are classified by SIC. This is important since such comparisons are among

the most effective tools for many marketing purposes.

These comparisons require that records be classified by principal product, since the statistics to which they are to be compared are published that way. Sometimes, however, a principal product may not tell the complete story about a particular customer or prospect. You may have no market for what you have to sell in a plant making only that principal product.

Here is another great advantage of SIC—its use as an indexing system. A plant can be given several SIC codes to cover the principal product and all other products manufactured. If this is done, information about all of the plants making products in a single SIC industry can be developed and examined.

Our McGraw-Hill Census does this. In "America's Manufacturing Plants" (McGraw-Hill Publishing Co.: \$25.00) a statistical picture of the number of manufacturing plants of 20 or more employees classified in each 4-digit SIC industry is presented. The table indicates the number of plants so classified by principal product and, separately, the number that make the same products in addition to another which is their principal one. In many instances, the latter figure is larger than the former. Some examples:

SIC 3535—Conveyors and Conveying Equipment: 137 plants manufacturing as principal product; 220 plants manufacturing as secondary product.

SIC 3611—Electric Measuring Instruments and Test Equipment: 192 plants manufacturing as principal product; 268 plants manufacturing as secondary product.

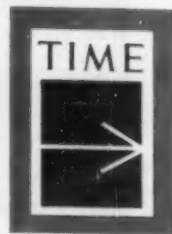
SIC 3631—Household Cooking Equipment: 78 plants manufacturing as principal product; 73 as secondary.

In summary, to get best value from SIC:

1. Make sure that your customers and your prospects are carefully and consistently classified by SIC.
2. Examine the results of this grouping and decide how many digits are needed for your purposes in each major group; in some, two digits may be useful and in others you may need more than four digits.
3. Gather all the information you can about the products of the plants on your list; classify all products. There may be much unmined gold in them thar hills! ♦



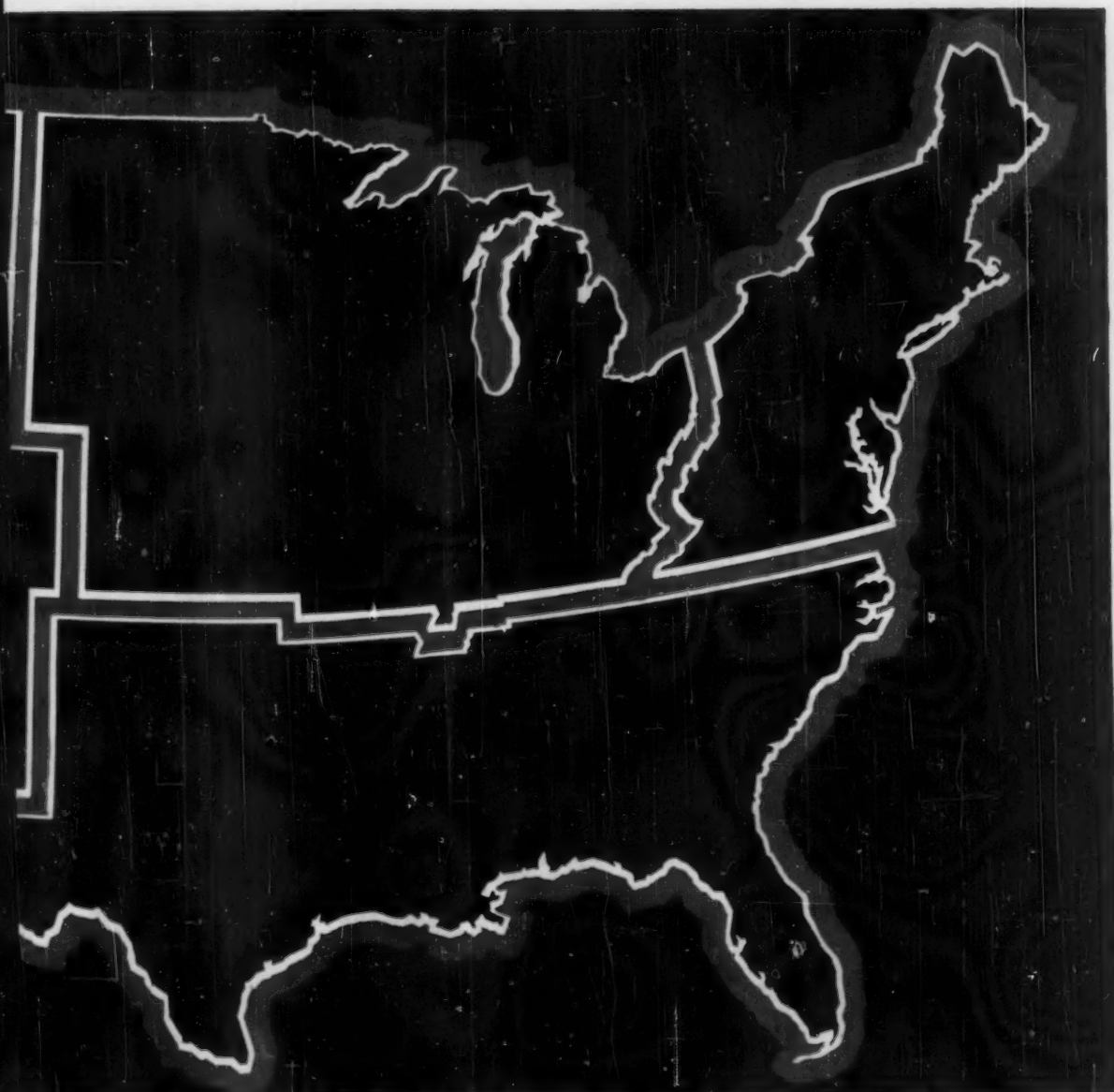
\$2,290





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REGION*	CIRCULATION	PAGE B&W*	PAGE 4-COLOR*	Call or write for details		
Eastern	930,000	\$6,260	\$9,390	New York Boston	Rockefeller Center Statler Building 20 Providence St. 221 No. LaSalle St. Hanna Building	Judson 6-1212 HUBbard 2-7377 ANDover 3-2860
Central	710,000	4,780	7,170	Chicago Cleveland	1422 Euclid Avenue Fisher Building	SUPERior 1-1212
Western	570,000	3,835	5,755	Detroit	West Grand & Second Boulevards	TRinity 5-1212 DUNkirk 5-8151
Southern	340,000	2,290	3,435	Los Angeles Minneapolis- St. Paul	3424 Wilshire Boulevard Rand Tower 527 Marquette Ave. Girard Trust Building	FEDeral 3-0478
National	2,550,000	14,300	21,450	Philadelphia Pittsburgh St. Louis	1400 South Penn Square Grant Building Shell Building 13th & Locust Street	LOCust 8-1212 COURt 1-3525 GENeva 6-1212 YUKon 2-5000
*Regional editions: full pages only				San Francisco	100 Bush Street	



MARKET... BY REGION

Starting with the issue of January 20, 1961—and every fourth week from then on—you can place advertising in TIME for any or all of the four regions outlined on the map above. Here is your opportunity for concentrated coverage of the nation's best customers in any combination you choose of America's four major marketing areas. Here and ready to work for you is the big, selective TIME selling power—with a new flexibility . . . new efficiency . . . new economy.

TO REACH INFORMED AND INFLUENTIAL U. S. FAMILIES WHO WANT THE WHOLE STORY OF THE WHOLE WORLD'S WEEK





**New and vastly improved
Bell services like these
can boost profits for you!**

You're looking at just a few of the many new and improved communications products the Bell System has available today. They are the result of never-ending research and development aimed at improving operating efficiency and profits for businesses like yours.

They didn't just happen. They were tailored to business needs . . . in Purchas-

ing, Production, Administration, Sales, Warehousing, Traffic, Shipping and Accounting operations.

They can help you reduce time-consuming detail, spark sales, improve service to customers, lower operating costs, and increase profits. Nowhere will you find better, faster internal or external communications services.



**An experienced telephone
man like this will tell you
all about them any time!**

He's a Bell Telephone Communications Consultant, uniquely qualified to help you. He's an analyst, a methods expert, a man trained and experienced in the application of communications to business needs.

Have a talk with this man. He'll bring you up-to-date on the newest Bell System

communications. He'll appraise your daily operations, the layout of your premises, and your present communications . . . to determine if and how new facilities can better serve you.

Just call your telephone business office and ask for a Communications Consultant. He will visit you at your convenience.

BELL TELEPHONE SYSTEM





WHAT MAKES A LEADER TODAY

Modern business has made the old-style leader as ineffectual today as yesterday's "new" methods. The ripsnorting man of action is being replaced by a quieter man — a thinker and a planner. But not all companies know how to groom such men.

A new dimension in sales leadership is required in today's management picture. It may be called leadership-plus. It reflects profound changes that have taken place in the business corporation since men like Carnegie, Rockefeller, Frick, Morgan, and others were the prime movers in industry, and sales managers were magnetic super-salesmen with cheer-leader personalities who had graduated to the head of the team.

Motivation was of prime importance then. It is now. But, under today's conditions, three additional components are essential. These are: planning, coordinating and measuring.

Today's sales manager, if he is to be an effective leader, must think of his job in terms of **planning** the activities of his department, **motivating** the supervisory personnel and salesmen, **coordinating** the different units of activity, and **measuring** results.

There are people in business who

question the need for leadership in a management picture where something resembling power steering of a complex, automated vehicle replaces the dramatic handling of a team of horses all doing the same thing. The role of the individual, many argue, must of necessity be submerged in our present day corporate society and all along the managerial line.

More dynamic management men do not agree. They believe that by re-creating a little of the climate of the free enterprise system at the front line of management, we may also find that we have released a source of energy and brain power that will go much further toward cost reduction and profit improvement than anything else we can do. The trick is to balance leadership freedom with the essential order of modern management.

All human relations strike some kind of balance between freedom and order. Because the stakes are high

and because technology demands discipline, the balance in our industrial society has been weighted highly on the side of order. Nevertheless, the focal point at each stage of operation, whether of a society or of a company, is the individual. It is essential for effective decisions and action to keep focusing on the one man charged with leadership at each key point. There can be and should be opportunities for leadership all along the line.

What is the profile of today's leader—specifically in sales? How do we spot him? How develop him?

Sitting in on any sales executives' meeting will reveal that many different types of men become leaders in the field of marketing and selling. But usually we see standing out qualities of personal amiability, likableness, magnetism. These appear to be prime ingredients in the make-up of the man who has reached the top or is on his way to the top in sales.

But while such a man may have

gotten his start because of these qualities, they will not mark him for leadership. Being a darned nice guy with a flair for getting people to buy him and his company's products or services isn't enough. There must be a hard core of other qualities, skills and experience in applying them.

Leadership in sales management requires a man to be a good psychologist, with insight into people and their motives and reactions. It calls for the ability to avoid controversy and steer others away from it, and even a talent for converting controversial or difficult situations to the company's benefit.

The man who will be a leader in the sales field inspires confidence and has the subtle ability to transmit self-confidence to his supervisory and field personnel. He knows how to motivate those answerable to him or, better, fires them to motivate themselves within a given pattern of policy—makes them want to do rather than making them do.

The leader has high standards of integrity and of performance both for himself and for those he is responsible for selecting and training to do the department's work. Depending on his temperament, he will demand these

high standards of performance, persuade men to them, or inspire them by example. Those working with him may kick and scream at times against his exacting requirements, the pace he sets for them; but the ones capable of measuring up (the only ones he wants), sooner or later will admit that working under such a man and having the benefit of his training was the greatest thing that ever happened to them because it brought out more than they knew they had in them. No real leader ever tolerates sloppy performance or settles for less than his or another man's best.

► But the modern sales manager, besides being a leader, must be an administrator. Top management in business is eager for the sales manager to be a man of sufficiently broad gauge to function effectively and creatively in the management scheme. Here is where he needs the plus qualities: aptitude and experience in planning, coordinating and measuring.

Some large companies have found that the sales manager may be psychologically unable, or unwilling, to take an interest in these more prosaic aspects of the expanding function of sales management. They appear dull,

even grubby, by comparison with the more dynamic elements of the sales job. There must be less personal participation, more delegating. The sales manager relinquishes identification with the work itself, gives up being a salesman in the basic sense. He now sets a plan and knows how to get others working it.

Being a leader in the broadest sense means to pull away from the actual work. This is hard because, like an engineer, for example, the sales manager has been a specialist. He has been inclined to think of himself as primarily a better, more seasoned salesman.

The new type of sales leader needs the auxiliary qualities named because he must multiply his capabilities and efforts. He accomplishes this by teaching and motivating—developing men. He also does it by broad-scale planning of their activities and by long-range planning of his total job. He does it by measuring markets; measuring performance; measuring results.

The old-style leader was a man of action, on the go, issuing orders. Today's leader-administrator is in some ways an almost opposite type. A great deal of study, thinking, organizing go into his job. An expert in

Greensboro—GREEN THUMB OF THE NEW SOUTH'S MARKETS

In The Top 20 In Total Retail Sales

Greensboro, fertile with diversified industry, is the market with a knack for making sales grow. Of the top 20 markets of the NEW South, Greensboro ranks 18th in total retail sales—closely following Richmond, Norfolk-Portsmouth; and exceeding Shreveport, Mobile and other prominent markets. Exclusively cultivating this lush market for you is the Greensboro News & Record—the only medium with dominant coverage in the Greensboro Market and selling influence in over half of North Carolina. Over 100,000 circulation; over 400,000 readers.



Greensboro—In the Top 20 Retail Markets of the South and in the Top 100 of the Nation

Write on company letterhead for "1960 Major U. S. Markets Analysis" Brochure of all 300 Metropolitan Markets.

Greensboro News and Record

GREENSBORO, NORTH CAROLINA • Represented Nationally by Jann & Kelley, Inc.



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There's a warm welcome awaiting you. Millions of friendly people with money to spend and a willingness to spend it. A lively \$15,000,000,000 retail market. But, to sell Canada—make no little plans. Consider Weekend Magazine/Perspectives—the big front door into more than 1,880,000 prosperous homes.

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the techniques of planning, he must know where to get and how to use information.

This brings us to a prime requisite of the new type of sales leader: He must be willing to use staff help and be skilled in its application to his problems; otherwise, he will be very much restricted. The sales manager accustomed to playing it by ear, for example, may assume that because his department has gained in customers and sales volume over the years and the company is making a profit, all is well and he is doing a good job.

But you can go broke making a profit. You can lose ground even with a rising sales curve. What mastery of planning, coordinating and measuring and the effective use of information fed to him by staff people would have taught this man is that while his company was making a profit the profit was not big enough. Although his sales curve had continued to mount, markets had been growing up all around him and competitors were becoming entrenched in them.

Satisfactory performance, high performance, is not just demanding more and more of the business and being satisfied with obtaining it. It is realizing what a company's position is in relation to potential and competition; learning through the use of staff studies, when to organize differently, when, where, how to expand or contract, when to make changes or shifts in personnel. It means knowing what studies to make to elicit the necessary information for planning and action.

Measuring (or controlling) — the "feed-back" — is the last essential of leadership-plus. It involves more than ordinary or superficial evaluating. It includes establishing objectives against which to evaluate. Evaluation or

measuring must be done with a purpose. It is one of the toughest things to pin down. Without it, no sales leader is successful enough.

All of the four basic qualities of leadership-plus work together. The man chosen for and gifted with leadership, with the ability to develop others and get them into effective action, will lean on planning to set up measures to take correct action, and have the knowledge, experience and information to recognize what constitutes good performance in relation to objectives.

► How does a company discover men with the potentialities for the leadership position, as described? Executives of companies that have perfected techniques in this field tell us that they look for the man with natural initiative, one who appears to be a self-starter, who apparently relies more on himself than on others but has no problems in working with others, whether above or below him in function. It is a moot point whether the desired qualities can be spotted in a young man at the start of his career. Still, there is more likelihood of finding potential leaders by looking for certain outstanding characteristics.

It may be that men become leaders because, from boyhood or early manhood, they have **looked like** leaders. Teachers, elders have picked them to hold responsibility; their fellows have looked to them for leadership; and existing or latent qualities have been brought out or developed. This is why it is valuable to look at a man's record as far back as possible. In working with a man who inspires confidence, the others feel they are associated with a winner. This in turn builds up the potential leader.

One characteristic to look for is respect for other people, for their efforts and accomplishments, and the self-confidence to provide opportunities for them and give them credit where it is earned. A leader gains respect by showing respect.

The potential leader should also have native mental capacity and the ability to see the significance of relationship of parts to a whole. He must be able to grasp divergent factors and see them in perspective.

It is equally important that a man marked for leadership have the willingness to accept responsibility. Such a man can be spotted because he may not wait to have it thrust upon him. The non-leader type, given a 50-50 choice, is more apt to shun responsibility. The leader-type will watch for the 1% opportunity to take responsibility and accept it even though it may mean longer hours and heavier work.

► Developing the leader is as important as finding the "material." Some of our leading corporations have management development programs which reach all the way down to local functions of company operation to appraise men. The appraisal is constant and consistent, all along the line. Its objective is not for purposes of compensation, for simply looking over a man's shoulder to decide if he's worth keeping in the job, it's a positive evaluation system designed to uncover latent abilities and give the man possessing them the opportunity to develop and improve his position. It first finds the men capable of development and then provides the means.

It is necessary for the success of such a program to recognize a man's limitations as well as his potential. You probably cannot create a leader; you can train and develop a manager. A man can become a good manager even with weakness in leadership. If not much personal motivating of others is required, he will get by, although he'd be more effective if he had it. But given the basics of leadership, it can be brought out in a number of ways.

He can be encouraged to enlarge his thinking. Take, for example, one company's work with men still at supervisory levels but marked for growth opportunities. At first, only a great deal of discussion enabled some of these men to think of their jobs in different terms from those that applied to the work of the men they were supervising. With encouragement, they gradually visualized their function in terms of directing others, planning or thinking ahead on

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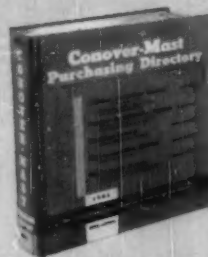


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matters falling within the area of their operation, considering how their crews could work together better towards a common objective, and striving to control results.

In brief, a district sales manager, for example, would get his supervisory personnel to see their jobs in terms of planning, motivating, coordinating, and measuring. Here is the foundation of leadership-plus being laid far down in the ranks. For the first time, the men in question begin to realize what the job of management really means.

On a different level, one of the country's progressive basic industrial companies had an opportunity to study top-level leadership qualities when certain fortuitous circumstances put it in the hands of four different presidents. Certain common denominators gradually appeared. It became clear that the retained responsibility of the top man was definitely not one of selling, producing, engineering, or whatever was the department of management studied. It was rather one of planning, motivating, coordinating and controlling these various functions and specialties of the business

for most effective over-all results.

It proved most interesting—and inspiring—to the foreman and the sales supervisor to learn that their jobs as front line supervisors could be expressed in exactly the same terms as the job of the president of the company, the only difference being the scope of responsibility. It was apparent that through such job perspective a great potential was released in enthusiasm, feeling of responsibility, and job satisfaction. And the climate was created for development of leadership in the individuals gifted in this direction.

There is one thing to watch here. Job enthusiasm and satisfaction is not truly possible, and leadership development will not be genuine, unless front-line managers actually are given the opportunity to exercise the four basic processes of management. This is where organization planning comes in.

We have this explanation from one perceptive planner: "While organization planning is a part of the broader management job as a whole, it provides the foundation on which all the rest of the management processes

are built. Or, stated in another way, it provides the framework in which to build a complete management responsibility. It is concerned with both the broad structure of the business as a whole, and the individual structure of a single management position—such as sales. It includes the accomplishment of objectives, the performance of functions, the proper maintenance of relationships.

"The important thing is that through organization planning we can start building into every manager's job, from top to bottom, a more complete management responsibility—that is, more opportunity to plan, coordinate, motivate, and measure results within a defined area of responsibility."

► Men who are to be given a chance to develop for leadership roles, in short, need to be given the chance to take responsibility in small doses. Better development is possible when men are started at the front positions at the earliest opportunity—the maximum chance to exhibit and use their own initiative.

The earlier you give a man the opportunity to know he has to live with his mistakes, the earlier he will develop responsibility and build confidence in his ability to make decisions. This will not happen when decisions are made for him. Higher-level management can do much to push down responsibility and open up chances for the development of the initiative that flowers into leadership in more people at more levels all the way to the lowest supervisory positions.

Some companies permit their jobs to become so procedural that there is no way to begin to develop leadership. Best results ensue if, at all levels, you can say to men: Here is an objective. See what can be accomplished within the given limits. This is often done. But in most instances the limits could be broader than they are.

A company may earmark men for leadership or management roles but never give them adequate chances to develop. Then placed in positions of responsibility they may, most likely will, make mistakes that can be costly. They have not had the opportunity to develop confidence in their own ability to make decisions and now run the risk of losing what confidence they have. The lower down a man begins to learn these attributes of leadership, the better for him and for his company.

No management, at whatever level, can get to know the resources of potential leadership it has unless leeway is provided for men to show it early and cultivate it early and late. ♦

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Here's the
industrial market
picture as it was
10 years ago...

(mfg. employment index,
000's omitted)

to see how
it looks today
lift this page



DO YOU KNOW WHERE YOUR MARKET POTENTIAL IS TODAY?

INDUSTRY ON THE MOVE

Plant Locations in Metro Areas by SIC Codes Employment and Shipment Gains in SIC Industries for 1947-1960

Growth Analysis of Leading Corporations

Half of the shipments of all manufacturing in the United States are accounted for by the 5,700 plants with over 500 employees each. They are the key prospects for any industrial marketing program since they will make more than half of all industrial purchases. Of these plants, 4,061, with 7,438,700 workers (or 46% of total manufacturing employment), are in the 300 metropolitan areas recognized and defined by Sales Management. (See the November 10 "Marketing on the Move" issue of SM for a full discussion of the latest metropolitan area definitions).

Key Plant Locations by Metropolitan Areas

We present here, as a "first", the distribution of these plants by metropolitan areas and according to the new 4-digit code used for the first time by the Government in the 1958 Census of Manufacturing, which will be released shortly.

The data are taken from "Directory of Key Plants", a new directory just published by Sales Management. In addition to the data appearing in the following pages, the directory gives plant names, addresses and product descriptions, along with classifications by county and SIC codes. For example, the first listing below shows 1 plant in 2211 in the Birmingham, Ala., metropolitan area. In the directory this plant is identified as the Avondale Mills, Comer Building, Birmingham, makers of cotton and broad woven goods, with 700 em-

ployees. It is classified in 2233 (old SIC code) and 2211 (new SIC code).

We believe the data published here and in the directory to constitute a unique contribution to industrial marketing because it is a close approximation to a census of all large manufacturing plants in all industries, including metalworking and all others. As a matter of fact, the only counterpart to it is the Classified Industrial Directory used by the Census Bureau in the planning and execution of the quadrennial Censuses of Manufacturing. But because the government is prohibited by law from disclosing information on the operations of particular plants, the official Classified Industrial Directory can never be made public. Since no such prohibition applies to private agencies we have tried to fill the gap.

The research staff of Sales Management has long been in a strategic position to compile such a directory, first, because our close association with industrial market research problems revealed the great need for such a tool, second, because we have had over 30 years of association with chambers of commerce, local and regional planning commissions and other agencies in the assembly and evaluation of local economic data. The Census Bureau could tell us pretty much what to look for, namely, that in each county there were so many plants of a given size in specified 4-digit SIC classifications. We could then solicit information on these plants from informed local agencies. Other avenues of informa-

tion available were state and local industrial directories, and correspondence with the plants themselves.

SIC Codes: Old vs. New

We employ the new 4-digit SIC code here, which is the one fully defined in the "Standard Industrial Classification Manual," available for \$2.65 from the Superintendent of Documents, Washington 25, D.C. While published in 1957 after many years of research, the new code was first used in the 1958 Census of Manufactures, and the first results of this will be released in 1961. Therefore our feature can be regarded in part as an anticipation of these Census results. The relation of the old and new SIC codes was fully discussed in our July 10, 1959 Survey of Industrial Buying Power. (See, for example, "From the Old to the New 1957 SIC," by Harold T. Goldstein, page 53).

Plant Data on Shipments

We show on pages 112-122 a summary of data on employment and shipments for 1960 for all 4-digit industries. The estimates have been made on the old basis because the Census Bureau has so far found it possible to release 1958 Census data (from which our estimates are of necessity projected) on the basis of the old 4-digit code only. As soon as the new basis becomes available Sales Management hopes to publish the 1960 projections according to the new SIC codes.

(Continued on page 110)

New UMR Study

cuts through costly selling smog,

reveals CPI* buying patterns

for 28 product groups

The single most vital, valuable thing about this new study by Universal Marketing Research, an Alfred Politz affiliate, is its intimacy with your own marketing problems. That's why you, personally, will find it of inestimable usefulness in stepping up salesmen performance, providing them with superior tools and putting more bite into your advertising.

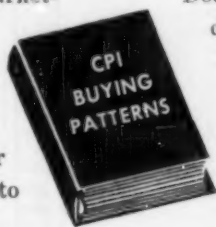
This is research that faces up to realities. It answers questions that have long plagued sales and advertising people . . .

"Will that engineer who said yes be over-ruled by top management? Are my salesmen calling on the right men in the *Chemical Process Industries market? Exactly how powerful is the technical

decision-maker? Is he as big a buying force for raw materials as for equipment? Does he get involved at all buying steps?

Does he as much say in selecting vendors, for instance, as in determining the need for a product? What does he want most from salesmen?"

The most satisfying thing to us about this study is that so many men who have already seen it find that it substantially confirms their own good judgment. If you sell to the CPI, we think that you, too, will find it valuable in devising and executing 1961 marketing plans. Contact your nearest CHEMICAL ENGINEERING representative now, for a personal inspection of this meaningful new information.



Chemical Engineering

McGRAW-HILL BLDG., NEW YORK 36, N. Y.

Plant Locations in Metropolitan Areas by SIC Codes

SM Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
ALABAMA			3382	1	2.0	3141	1	.5	3851	1	.5	3879	2	2.8
BIRMINGHAM			3441	1	.5	3221	3	2.1	3811	1	.5	3711	4	4.9
2851	1	.7	3571	1	.5	3241	3	2.1	3729	1	2.0	3714	1	1.0
2711	1	.7	3862	1	2.0	3253	2	2.0				3729	3	2.3
3241	1	.7	3729	2	5.3	3271	1	.5	Total	8	4.7	3731	3	2.8
3296	1	.8	Total	7	11.0	3312	3	8.1				3851	1	.7
3312	9	41.3				3321	1	.5	SAN DIEGO			Total	93	100.8
3321	3	3.4	TUCSON			3381	1	.9	2831	2	1.2	SAN JOSE		
3441	1	.7	3721	1	5.0	3352	2	4.1	2327	1	.9	2033	5	4.8
3443	2	1.4	3729	1	1.8	3357	1	.9	2711	1	.9	2037	1	.6
3494	2	2.2	Total	2	6.8	3391	1	.8	3862	1	11.0	2431	1	.9
3535	1	1.2	ARKANSAS			3411	1	1.9	3673	1	.7	2711	1	.6
3731	1	0.3	FORT SMITH			3423	1	.6	3721	2	46.5	2819	1	2.1
3742	1	1.2	2911	1	.8	3429	1	.8	3722	1	4.0	3241	1	.6
Total	25	61.0	2649	1	.6	3433	1	1.0	3729	2	2.6	3497	1	.9
GADSDEN			3211	1	.6	3442	1	2.5	3731	1	.8	3551	1	.6
2211	1	1.5	3839	1	.8	3444	1	.5	Total	12	69.6	3671	1	2.0
3011	1	3.2	LITTLE ROCK-NORTH LITTLE ROCK			3482	1	.8	SAN FRANCISCO-OAKLAND			3811	1	1.5
3312	1	5.6	2329	1	.8	3481	1	.8	2011	1	.7	3612	1	2.9
3321	1	1.1	3621	1	.8	3494	1	.5	2013	2	1.5	3671	1	1.2
Total	4	11.4	3671	1	.8	3499	2	1.4	2024	1	.6	3711	2	5.9
HUNTSVILLE			Total	4	2.6	3533	3	4.9	2326	1	.8	3721	1	.6
2711	1	1.7	CALIFORNIA			3553	1	2.0	2329	1	.8	3729	2	19.0
3141	1	.7	FRESNO			3559	1	.8	2832	1	.5	3851	1	.7
3721	3	12.5	2034	1	.5	3561	4	3.8	2833	4	4.1	Total	22	44.0
Total	5	14.9	2084	1	.7	3569	1	.9	2842	1	.7	SANTA BARBARA		
MOBILE			2086	1	.6	3571	4	5.7	2848	1	2.0	3721	1	.7
2811	1	1.0	3579	1	.7	3585	2	3.2	2862	1	1.9	Total	1	.7
2821	2	2.6	3721	2	2.3	3586	1	.5	2863	1	.8	STOCKTON		
2643	1	3.0	3729	1	.7	3589	1	.8	2071	1	.6	2033	3	2.5
3334	1	.7	Total	5	3.6	3611	2	8.9	2082	1	.8	2034	1	.8
3731	1	1.8	LOS ANGELES-LONG BEACH			3622	1	3.3	2328	1	1.0	2431	1	.6
Total	6	9.1	2011	1	1.2	3629	1	.6	2337	1	.8	2651	1	1.0
MONTGOMERY			2824	1	.7	3631	3	3.5	2394	1	.5	3844	1	.5
2211	1	1.5	2826	3	4.6	3639	1	.9	2499	1	.8	Total	7	5.4
Total	1	1.5	2931	2	2.1	3682	1	4.8	2515	1	1.2	△MODESTO		
TUSCALOOSA			2033	1	3.0	3672	1	3.0	2621	1	1.2	2033	1	1.2
2843	1	1.8	2037	1	.6	3679	17	33.7	2643	1	1.4	2084	1	.5
3011	1	1.3	2081	4	3.7	3681	1	8.2	2651	1	.8	Total	2	1.7
3321	1	1.5	2082	1	.5	3711	6	11.3	2711	3	3.7	△VENTURA-OXNARD		
Total	3	4.4	2086	1	.8	3714	1	1.9	2752	2	1.5	2911	1	.6
△ANNISTON			2089	1	.8	3722	1	5.8	2781	2	1.5	Total	1	.6
2211	1	.7	2099	1	.8	3729	28	47.4	2812	1	1.0	COLORADO		
2286	2	2.4	2253	1	1.2	Total	207	432.5	2813	1	.9	DENVER		
2290	1	.7	2339	1	1.3	SACRAMENTO			2818	1	.8	2011	2	1.8
3321	2	1.4	2342	1	.9	2023	1	2.0	2819	1	.5	2082	1	.6
3871	1	1.7	2514	2	1.2	2711	1	.6	2831	1	.6	2082	1	.9
Total	7	6.9	2541	1	1.5	3241	1	.6	2841	1	.6	2711	1	.6
△FLORENCE-SHEFFIELD-TUSCUMBIA-MUSCLE SHOALS			2782	1	1.0	3312	1	8.0	2841	1	.6	2819	1	1.1
2254	1	.8	2771	1	.5	3332	1	.6	2851	1	3.0	3011	1	.8
2334	1	1.8	2782	1	.6	3639	1	1.0	2873	1	.6	3089	1	4.0
3382	1	1.7	2819	3	4.6	3679	1	1.9	2883	1	.6	3161	1	1.5
3711	1	.7	2841	2	1.2	3722	1	6.9	2911	3	8.0	3531	1	.8
Total	4	5.8	2851	1	.6	3729	2	7.0	3121	1	.6	3721	1	.9
ARIZONA			2882	1	.8	Total	10	26.9	3221	3	2.6	PUEBLO		
2711	1	.8	2889	1	.6	SAN BERNARDINO RIVERSIDE-ONTARIO			3241	1	.5	3312	1	8.8
			2911	5	17.0	2037	1	.6	3312	5	8.1	Total	1	8.8
			2952	1	1.2	3352	1	1.0	3322	1	.6			
			3011	5	9.9				3332	1	.8			
			3089	2	1.3				3381	1	.6			
			3079	1	.5				3411	2	3.2			
									3429	1	1.8			
									3431	1	.7			
									3441	1	.9			
									3442	1	.5			
									3519	3	2.3			
									3544	1	.5			
									3581	2	1.2			
									3571	2	4.2			
									3611	1	.6			
									3613	2	1.5			
									3622	1	8.2			
									3661	2	3.3			
									3682	1	1.0			
									3673	1	1.1			

△ Denotes SM potential metropolitan area

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Plant Locations in Metropolitan Areas by SIC Codes

SM Estimates, 1959, for Plants (500 or more employees) and Employment


SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
CONNECTICUT			2801	1	.8	3679	2	5.2	△TALLAHASSEE			ILLINOIS		
BRIDGEPORT-STAMFORD-NORWALK			2831	1	1.0	3729	1	1.9	2445	1	.9	CHICAGO		
2342	1	1.6	2881	1	.8	Total	18	14.2	Total	1	.9	2011	8	6.8
2382	4	4.7	2891	1	.8	FLORIDA			GEORGIA			2013	4	2.0
2721	1	.9	3021	1	4.8	FORT LAUDERDALE-HOLLYWOOD			ALBANY			2025	2	4.7
2761	1	1.0	3069	2	2.7	3271	1	.5	2294	1	.8	2029	1	2.0
2944	1	.6	3079	1	.8	Total	1	.5	Total	1	.8	2033	3	5.1
3069	2	1.7	3315	2	1.5	JACKSONVILLE			2036	1	.8	2045	1	1.0
3172	1	.8	3322	1	.8	2121	1	2.0	2046	1	2.0	2051	8	11.7
3292	1	1.5	3381	6	6.1	2821	2	1.1	2052	8	6.3	2057	3	11.6
3381	2	3.5	3429	1	2.0	2711	1	.5	2073	1	1.2	2082	1	.8
3387	1	.6	3432	1	2.0	3731	2	3.2	2087	1	.5	2088	1	.6
3381	1	.5	3482	1	.6	Total	6	6.8	2099	3	2.0	2097	1	.5
3429	2	1.8	3489	1	.5	MIAMI			2294	1	.7	2241	2	1.8
3494	1	1.2	3548	1	.8	2097	1	.5	2296	1	.8	2271	1	1.5
3541	1	3.0	3689	1	.7	2922	1	.5	2321	1	1.4	2293	2	1.2
3583	1	1.5	3691	1	.8	2941	1	.5	2342	1	1.2	2296	2	1.0
3689	1	.8	3692	1	3.2	2711	2	1.8	2515	2	1.6	2311	4	4.1
3691	1	.8	3699	1	.8	3271	1	.9	2653	1	1.3	2331	1	.6
3692	2	1.7	3699	2	1.3	3429	1	.5	2711	1	1.7	2336	2	1.7
3671	1	2.2	3681	1	.8	3432	1	.5	3111	1	.6	2342	2	1.2
3679	1	1.0	3722	3	4.4	3442	1	.6	3221	1	.8	2441	1	1.0
3681	1	.6	3842	1	.8	Total	9	5.8	3312	1	1.6	2499	1	.9
3684	1	1.0	3871	4	4.0	ORLANDO			3711	4	7.1	2511	1	.5
3621	1	.8	3914	3	2.1	2711	1	.8	3721	1	15.0	2512	1	2.4
3631	1	.7	3941	1	2.0	Total	1	.6	3851	2	2.2	2514	3	1.6
3636	1	1.4	3984	1	5.2	PENSACOLA			Total	25	42.8	2515	1	1.0
3639	1	1.1	Total	45	94.6	2299	1	.5	AUGUSTA			2522	1	.9
3643	3	2.3	△MIDDLETOWN			2611	1	.5	2211	4	7.1	2542	1	.8
3662	1	.8	3021	1	.8	2621	1	.7	2221	1	.9	2644	1	.8
3683	1	.8	3692	1	1.3	2643	1	1.9	2261	2	3.8	2661	6	4.1
3694	1	.7	3691	1	.6	2624	1	4.0	2819	1	8.0	2683	1	.6
3699	1	.8	Total	3	2.7	TAMPA-ST. PETERSBURG			2854	1	.7	2684	1	.7
3714	2	1.6	△NEW LONDON-NORWICH			2037	1	.6	2855	1	.8	2685	1	1.3
3721	2	1.6	2221	1	.8	2121	4	3.3	Total	9	20.6	2711	4	8.8
3722	1	5.6	2533	1	1.4	2871	1	.9	COLUMBUS			2721	2	1.2
3811	1	.7	3429	1	.8	3682	1	1.1	2071	1	.8	2731	3	4.3
3842	1	.9	3731	1	6.4	3729	2	2.0	2211	2	3.1	2741	1	.8
Total	47	94.0	Total	4	9.4	3731	1	.8	2251	1	.5	2761	4	2.7
HARTFORD-NEW BRITAIN			DELAWARE			WEST PALM BEACH			2296	2	1.6	2782	9	11.4
2111	1	.8	WILMINGTON			3722	1	3.0	Total	8	6.0	2781	1	2.2
2221	1	.8	2281	1	1.3	Total	11	9.4	MACON			2771	2	1.1
2283	1	.9	2816	1	.8	LAKELAND			2296	1	1.9	2782	1	.7
2711	2	1.6	2818	2	9.1	2871	1	.8	2441	1	.5	2815	1	.5
2732	1	.8	2819	1	.7	3411	1	.7	2621	1	.6	2819	2	7.9
2819	1	1.1	2882	1	3.0	3682	1	1.1	2643	1	5.1	2834	3	6.2
3351	1	.8	3069	1	.8	3729	2	2.0	3715	1	.8	2841	2	2.4
3429	2	3.6	3079	1	.7	3731	1	.8	3731	1	.8	2851	2	2.8
3449	1	.6	3111	2	1.4	Total	7	5.4	Total	5	4.1	2872	1	.6
3481	1	1.7	3221	1	1.6	PANAMA CITY			2882	1	.9	2882	1	.9
3482	1	.6	3312	1	2.5	2871	1	.8	2889	2	1.4	2899	1	1.1
3481	1	1.7	3584	1	.7	3411	1	.7	2962	2	2.2	3069	2	2.2
3541	2	3.3	3689	1	.5	3551	1	.7	2962	1	.5	3079	4	3.1
3589	1	.6	3711	2	8.5	Total	2	1.6	2962	1	.5	3111	1	.9
3582	4	10.3	3882	1	3.3	DISTRICT OF COLUMBIA			2962	1	.5	3141	1	3.6
3586	1	.8	WASHINGTON			2962	1	.5	2962	1	.5	3161	1	.6
3571	1	1.7	2029	2	1.5	2962	1	.5	2962	1	.5	3229	1	.7
3572	2	8.1	2711	2	2.7	2962	1	.5	2962	1	.5	3269	1	.5
3579	1	.7	2721	1	1.1	2962	1	.5	2962	1	.5	3292	1	2.5
3622	2	2.9	2761	1	.7	2962	1	.5	2962	1	.5	3293	2	2.6
3639	1	1.7	3589	1	1.1	2962	1	.5	2962	1	.5	3312	8	24.1
3643	1	1.8	Total	17	33.9	2962	1	.5	2962	1	.5	3313	1	1.5
3721	1	1.5	NEW HAVEN-WATERBURY			2962	1	.5	2962	1	.5	3315	2	3.0
3722	1	20.0	2341	1	.8	2962	1	.5	2962	1	.5	3321	1	.8
3723	3	9.2	Total	39	86.5	2962	1	.5	2962	1	.5	3322	1	.6
3729	1	.5	NEW HAVEN-WATERBURY			2962	1	.5	2962	1	.5	3323	6	6.1
3871	2	2.8	2341	1	.8	2962	1	.5	2962	1	.5	3331	2	1.5
3981	1	.9	Total	1	.8	2962	1	.5	2962	1	.5	3352	1	1.9

△ Denotes SM potential metropolitan area

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ASSISTANCE PROGRAM

Plant Locations in Metropolitan Areas by SIC Codes

Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
CHICAGO (Cont'd)			3993	1	.8	3679	1	1.5	3812	1	8.9	3713	2	8.0
3381	3	4.6	3999	1	.9	Total	3	3.5	3821	5	4.7	3714	2	5.7
3382	2	1.2	Total	381	529.1	ΔDANVILLE			3831	1	3.0	3722	1	11.9
3389	3	3.6	DAVENPORT-ROCK ISLAND-MOLINE			3679	1	1.4	3713	1	5.9	3811	1	.6
3391	6	4.8	2011	1	1.0	3714	2	2.4	3715	1	1.0	Total	63	82.0
3411	7	7.8	2431	1	.6	3719	1	1.3	Total	27	39.2	MUNCIE		
3429	1	.7	3021	1	1.2	ΔGALESBURG			2046	1	1.0	2011	1	1.1
3433	2	1.7	3322	2	1.2	3431	1	.5	2241	1	.8	2514	1	.6
3441	1	.6	3323	1	.8	3444	1	1.0	2518	1	.8	3221	1	3.0
3442	1	.8	3382	1	2.1	3519	1	1.7	2732	1	.9	3291	1	.8
3443	2	1.2	3433	1	.6	3595	1	1.4	2818	1	.6	3812	1	2.0
3452	5	4.4	3822	10	16.6	Total	4	4.6	2819	1	.6	3891	1	1.2
3461	6	9.6	3582	1	.8	ΔKANKAKEE			2841	1	1.4	3892	1	1.2
3481	3	1.7	3839	1	.5	2042	1	.6	2911	3	11.1	3893	1	1.6
3481	2	1.8	3811	1	1.7	2282	1	.8	3079	1	.8	3714	1	1.9
3494	3	9.1	Total	21	26.0	2812	1	.9	3241	1	1.2	Total	8	11.7
3496	1	.7	DECATUR			2834	1	.5	3312	9	62.4	SOUTH BEND		
3519	4	10.8	2046	1	3.3	3433	2	1.8	3317	2	1.7	2082	1	.7
3622	6	15.7	2092	1	.5	3822	1	.8	3323	2	1.4	2321	1	.8
3631	6	9.3	2335	1	.5	Total	4	4.6	3441	1	1.6	2329	1	.6
3635	2	2.7	2711	1	.6	ΔQUINCY			3443	2	1.7	2511	2	1.0
3636	1	1.0	2821	1	.5	3822	1	.8	3482	1	.7	3609	2	7.7
3637	1	1.0	3322	1	.7	3581	1	1.6	3489	1	.8	3822	1	2.5
3642	8	9.2	3494	1	.9	3851	1	1.3	3602	1	.6	3541	1	.9
3644	1	.7	3522	1	3.5	Total	3	3.7	3699	1	.8	3658	1	1.0
3645	2	1.3	3685	1	.5	INDIANA			3682	1	.6	3686	2	1.4
3646	1	1.1	3714	1	.6	ANDERSON			3714	2	1.7	3711	1	20.0
3651	1	.5	Total	10	11.5	2033	1	.8	3741	1	1.4	3729	2	14.2
3655	3	3.8	PEORIA			3253	1	.7	3742	3	5.4	Total	15	80.7
3661	4	3.4	2011	1	.6	3642	1	7.5	3843	1	.6	TERRE HAUTE		
3662	1	.5	2046	1	1.3	3894	2	15.0	Total	38	100.6	2082	1	1.5
3666	1	1.5	2082	1	1.0	EVANSVILLE			INDIANAPOLIS			2823	1	.8
3667	1	.5	2085	2	2.5	2011	1	1.2	2911	2	3.9	2999	1	2.7
3669	1	3.0	2335	1	.6	2041	1	.8	2989	1	.5	3696	1	3.0
3671	2	2.8	2643	1	.7	2121	1	.8	2381	1	.5	3722	1	1.8
3672	1	.6	3312	1	2.6	2711	1	.5	2431	1	.5	Total	5	9.8
3679	4	3.8	3822	1	21.6	2821	1	.6	2481	1	.8	ΔELKHART		
3681	1	.6	3331	1	1.3	2834	1	.8	2534	1	1.2	2651	1	.5
3682	2	1.5	Total	16	32.1	3429	1	1.3	3442	2	1.2	2634	1	1.2
3689	2	1.7	ROCKFORD			3441	1	.8	3494	1	.6	3681	1	1.6
3691	4	5.2	2511	1	.5	3531	1	1.8	3821	1	2.6	3691	1	.7
3692	1	1.0	3391	1	.5	3622	2	5.1	Total	8	8.4	ΔKOKOMO		
3693	3	4.5	3429	3	9.9	3714	1	.9	ΔLAFAYETTE			2781	1	.6
3694	1	.7	3482	2	1.8	Total	12	14.1	2433	1	1.2	3312	1	2.8
3695	18	30.1	3822	1	1.6	FORT WAYNE			3481	1	.5	3382	1	2.8
3696	7	29.2	3841	6	4.1	2011	1	.8	3499	2	1.9	3481	1	.8
3697	2	1.4	3882	1	1.2	2042	1	1.0	3522	1	.8	3611	1	1.5
3698	15	13.0	3881	1	.5	2051	1	.7	3531	2	1.4	3714	2	2.6
3699	3	4.8	3586	1	.6	2251	1	.7	3582	1	.7	3742	1	.6
3711	4	6.3	3714	2	1.3	2311	1	.7	3586	4	6.6	Total	6	15.6
3714	6	4.9	3723	1	.9	3312	1	.6	3622	1	.8	ΔMARION		
3722	2	5.5	3729	1	.5	3351	1	1.0	3651	2	2.2	3679	1	.6
3729	2	2.1	3821	1	.9	3357	2	1.0	3679	1	.5	3221	2	1.7
3741	2	10.0	Total	22	21.2	3531	1	.5	3711	1	2.3	3387	2	2.0
3742	2	7.3	SPRINGFIELD			3581	1	1.0	Total			Total		
3751	1	1.1	2041	1	1.0	3586	1	1.5	ΔBLOOMINGTON			Total		
3811	1	.5	3811	1	3.6	3699	1	.6	2071	1	.5	Total		
3821	7	4.3	Total	3	11.3	Total			3635	1	1.8	Total		
3842	3	4.0	Total			Total			Total			Total		
3881	3	6.3	Total			Total			Total			Total		
3871	2	1.9	Total			Total			Total			Total		
3911	2	1.4	Total			Total			Total			Total		
3931	1	1.7	Total			Total			Total			Total		
3941	1	.7	Total			Total			Total			Total		
3946	1	2.5	Total			Total			Total			Total		
3987	1	.5	Total			Total			Total			Total		

Δ Denotes SM potential metropolitan area

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Stability Brings Far Reaching Results



There are 1,651 business establishments, including manufacturing plants in 18 of the 19 Standard Industrial Classifications, within South Bend's Metro Area. No single industry dominates . . . employment is diverse and steady, providing South Bend households with the highest average income in the state . . . \$7,553!

The economical, efficient way to reach this market is with The South Bend Tribune . . . 92% coverage of the Metro Area; 64.2% coverage of the Retail Trading Zone! For complete details write for free copy of 1960 market data book.

**The
South Bend
Tribune**



The South Bend, Ind. Market
Seven Counties, over
One-Half Million People

Franklin D. Schurz — Editor and Publisher

STORY, BROOKS & FINLEY, INC. • NATIONAL REPRESENTATIVES

Plant Locations in Metropolitan Areas by SIC Codes

SM Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
3841.....	1	.7	IOWA			3011.....	1	1.7	2511.....	1	1.0	3011.....	1	1.7
3672.....	1	1.0	SIoux CITY			2011.....	3	3.6	2711.....	1	1.3	2011.....	3	3.6
3711.....	1	1.2	2046.....	1	1.1	3651.....	1	.8	276.....	1	1.3	3651.....	1	.8
3714.....	1	.7	2046.....	1	1.0	Total.....			2813.....	1	.8	Total.....		
Total.....	9	6.6	3822.....	1	.7	2821.....	1	.9	2821.....	1	.9	2821.....	1	.9
△MICHIGAN CITY			3631.....	2	1.8	2822.....	1	1.0	2841.....	1	1.0	2841.....	1	1.0
3433.....	2	1.2	3651.....	1	5.0	2871.....	1	.5	3241.....	1	1.5	3241.....	1	1.5
3522.....	1	1.3	3715.....	1	.5	3431.....	1	3.7	3461.....	1	.5	3461.....	1	.5
3631.....	1	1.3	Total.....			Total.....			3494.....	2	1.9	3494.....	2	1.9
3661.....	1	.5	2011.....	1	1.6	3522.....	2	4.5	3535.....	1	.5	3535.....	1	.5
3729.....	1	.8	2711.....	1	1.2	3564.....	1	1.5	3581.....	1	.5	3581.....	1	.5
3742.....	1	1.4	2721.....	2	2.5	3633.....	1	3.0	3639.....	2	7.8	3639.....	2	7.8
Total.....	7	6.2	3011.....	2	1.7	3711.....	1	2.7	3711.....	1	2.7	3711.....	1	2.7
△RICHMOND			3822.....	3	3.5	Total.....			38.....			38.....		
3357.....	1	.8	Total.....			9			53.1			53.1		
3522.....	1	.9	2011.....	1	1.6	2011.....	1	1.5	△OWENSBORO			2085.....	1	.8
3541.....	2	1.5	2711.....	1	1.2	3241.....	1	.8	321.....	1	.5	321.....	1	.5
3665.....	1	3.7	2721.....	2	2.5	Total.....			3671.....	1	3.6	3671.....	1	3.6
3631.....	1	2.0	3011.....	2	1.7	2011.....	1	1.5	Total.....			3.....		
3713.....	1	.7	3822.....	3	3.5	3241.....	1	.8	3.....			3.....		
3714.....	1	.8	Total.....			2			△PADUCAH			2251.....	1	.7
Total.....	8	10.2	2011.....	1	2.4	Total.....			2251.....	1	.7	2251.....	1	.7
△DUBUQUE			2431.....	2	1.6	2011.....	1	1.5	2251.....	1	.7	2251.....	1	.7
2011.....	1	2.4	3822.....	1	1.1	2011.....	1	1.5	2251.....	1	.7	2251.....	1	.7
2431.....	2	1.6	3661.....	1	.6	2011.....	1	1.5	2251.....	1	.7	2251.....	1	.7
3822.....	1	1.1	3665.....	1	.7	2011.....	1	1.5	2251.....	1	.7	2251.....	1	.7
3661.....	1	.6	3665.....	1	.7	2011.....	1	1.5	2251.....	1	.7	2251.....	1	.7
3665.....	1	.7	Total.....			2			2251.....	1	.7	2251.....	1	.7
Total.....	6	6.4	2011.....	1	2.1	2011.....	1	2.1	2251.....	1	.7	2251.....	1	.7
△DENOTES SM POTENTIAL METROPOLITAN AREA			2711.....	1	.5	2011.....	1	2.1	2251.....	1	.7	2251.....	1	.7
			2821.....	1	.7	2011.....	1	2.1	2251.....	1	.7	2251.....	1	.7

△Denotes SM potential metropolitan area

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SALES MANAGEMENT Announces A New

DIRECTORY OF KEY PLANTS

Accounting for Half of All Value Added In U. S. Manufacturing for All Plants with 500 or More Employees

It will show

- Plant Name
- Location by County
Mailing Address
State
- SIC Codes
- Product description
- Average Employment in 1959

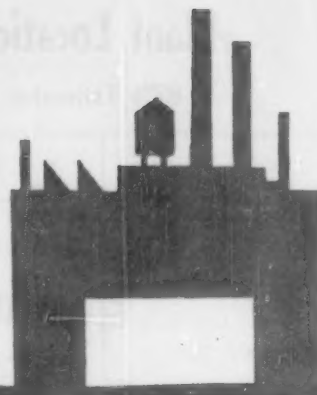
SAMPLE PAGE

County	Plant Name	Address	State	Product	S.C Code		Emp (Th)
					Old	New	
Bay	International Paper	Panama City	Fla	Pulp Mills	2611	2611	.8
Bay	International Paper	Panama City	Fla	Paper & Bd	2612	2612	.8
Bradford	Humphreys Gold Corp	Lawley	Fla	Titanium	3339	3339	.5
Broward	Universal Concrete Pipe	Box 215 Dania	Fla	Pipe	3271	3271	.5
Dade	City Products	Miami	Fla	Ice	2097	2097	.5
Dade	Lawnlite	Box 97 Miami	Fla	Outdr furn	2514	2514	.5
Dade	Adams Engineering Co	Ojus	Fla	mtl furn	2514	2522	.5
Dade	Miami Daily News	Box 410 Miami	Fla	Newspaper	2711	2711	.8
Dade	Miami Herald Publishing Co	Miami	Fla	Newspaper	2711	2711	1.0
Dade	Maule Industries	Box 645 Miami	Fla	sand rock	3272	3271	.9
Dade	Ludman Corp	Box 276 North Miami	Fla	extrusions	3352	3352	.6
Dade	Noma Spray Div Noma Lights	Miami	Fla	sprinklers	3431	3431	.5
Duval	Jno Swisher & Sons	Jacksonville	Fla	Cigars	2121	2121	2.0
Duval	National Container Co	Jacksonville	Fla	Paper & Bd	2612	2612	.6
Duval	St Regis Paper Co	Box 910 Jacksonville	Fla	Paper & Bd	2612	2612	.5

No other directory covers all industries, and reveals employment in each plant, an item which in most directories is handled by code, or as in Census releases is generally blacked out. Yet only if you know how large a plant is can you estimate its potential to you.

In addition to the classification of plants by area shown above, we also show all plants in each 4-digit SIC Industrial category ranked in order of employment.

Here, for example is part of a sample page showing the ranking of plants in the aircraft industry (which incidentally is the industry having the largest plants in the nation.)



SAMPLE PAGE

INDUSTRY 3721-Aircraft

County	Plant Name	Location	State	Emp (Th)
King	Boeing Airplane Co	7755 E Marginal Way Seattle	Wash	400
San Diego	Convair Div Gen Dynamics	3165 Pacific Hwy San Diego	Cal	350
Sedgwick	Boeing Aircraft Co	Wichita	Kans	285
Los Angeles	Douglas Aircraft	3000 Ocean Pk Santa Monica	Cal	235
Los Angeles	Northrop Inc	1001 E Broadway Hawthorne	Cal	225
Los Angeles	Douglas Aircraft	Long Beach	Cal	200
Tarrant	Convair Div Gen Dynamics	Grants Lane	Tex	200
Baltimore	Martin Co	Middle River	Md	194

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Plant Locations in Metropolitan Areas by SIC Codes

SM Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
PADUCAH (Cont'd)			MARYLAND			FALL RIVER-NEW BEDFORD			MICHIGAN			ANN ARBOR		
3141.....	1	.8	BALTIMORE			2211.....	8	8.8	3312.....	1	1.3	3546.....	1	.8
3882.....	1	.8	2082.....	1	1.1	2351.....	1	.7	3318.....	1	1.8	3882.....	1	.8
Total.....	4	3.8	2082.....	2	1.8	2382.....	1	.8	3321.....	1	.8	3882.....	1	.8
LOUISIANA			2085.....	1	.8	2385.....	2	4.8	3391.....	1	1.8	3882.....	1	.8
BATON ROUGE			2211.....	1	.8	2342.....	1	.8	3425.....	1	1.2	3882.....	1	.8
2812.....	1	.8	2221.....	1	.8	2381.....	1	.7	3429.....	1	1.0	3882.....	1	.8
2816.....	1	1.0	2311.....	2	1.3	3011.....	3	8.3	3482.....	1	.8	3882.....	1	.8
2819.....	1	1.7	2321.....	1	.8	3079.....	1	.8	3511.....	1	1.0	3882.....	1	.8
2824.....	1	.8	2382.....	1	.8	3357.....	1	.8	3541.....	2	3.8	3882.....	1	.8
2911.....	1	8.5	2881.....	1	1.8	3423.....	1	.8	3542.....	1	.7	3882.....	1	.8
Total.....	5	13.7	2881.....	1	.7	3452.....	1	.8	3546.....	2	1.8	3882.....	1	.8
LAKE CHARLES			2881.....	2	2.8	3545.....	1	1.8	3582.....	3	3.8	3882.....	1	.8
2819.....	1	.8	2819.....	2	2.2	3619.....	2	1.0	3621.....	1	.8	3882.....	1	.8
2911.....	1	.8	2941.....	1	.7	3682.....	2	3.8	3681.....	1	.8	3882.....	1	.8
Total.....	4	4.4	2911.....	1	1.8	3821.....	1	1.2	3729.....	1	.8	3882.....	1	.8
MONROE-WEST MONROE			3021.....	1	.8	3811.....	1	1.4	3732.....	1	.7	3882.....	1	.8
2811.....	1	3.1	3089.....	1	1.3	3861.....	3	3.4	3851.....	1	4.0	3882.....	1	.8
2819.....	1	.5	3079.....	1	1.1	Total.....	28	35.0	3871.....	1	1.0	3882.....	1	.8
Total.....	2	3.6	3221.....	2	1.4	PITTSFIELD			3881.....	1	.7	Total.....	40	39.2
NEW ORLEANS			3284.....	2	1.3	2211.....	2	2.0						
2082.....	2	3.2	3312.....	8	33.9	2281.....	1	.7						
2082.....	2	1.8	3339.....	1	.8	2621.....	2	1.3						
2121.....	1	.8	3351.....	1	1.0	2781.....	1	.8						
2211.....	1	1.8	3382.....	2	2.8	3812.....	2	18.5						
2311.....	1	.8	3411.....	2	2.4	3879.....	1	1.0						
2323.....	1	.8	3431.....	1	1.4	Total.....	9	21.1						
2801.....	1	2.5	3481.....	1	3.1	SPRINGFIELD-HOLYOKE								
2711.....	1	.8	3481.....	1	.8	2081.....	1	.7						
2819.....	1	1.0	3542.....	2	3.8	2211.....	1	.7						
3211.....	1	.8	3551.....	1	.8	2221.....	1	.5						
3229.....	1	.8	3589.....	1	2.8	2282.....	1	.8						
3334.....	1	2.8	3681.....	1	3.7	2299.....	1	.8						
3411.....	2	1.3	3679.....	1	1.0	2341.....	2	1.7						
3441.....	1	.8	3711.....	2	4.1	2843.....	5	3.3						
3731.....	4	8.3	3721.....	1	19.4	2711.....	1	.7						
Total.....	21	25.2	3731.....	3	11.1	2782.....	1	1.0						
SHREVEPORT			3811.....	1	.8	2821.....	2	3.9						
3211.....	1	.8	Total.....	54	121.6	2841.....	1	.7						
3443.....	1	1.2	ΔCUMBERLAND			3011.....	1	3.0						
Total.....	2	2.1	2821.....	1	1.9	3879.....	3	2.8						
MAINE			2824.....	1	3.0	3882.....	3	2.8						
LEWISTON-AUBURN			3811.....	1	2.2	3315.....	1	1.1						
2221.....	4	8.0	3211.....	1	1.0	3484.....	1	2.2						
3141.....	4	2.6	Total.....	4	8.1	3511.....	1	2.5						
Total.....	8	8.6	ΔHAGERSTOWN			3548.....	1	.8						
PORTLAND			3589.....	1	.7	3589.....	2	1.3						
2033.....	2	1.2	3721.....	1	8.5	3589.....	2	1.8						
2821.....	1	2.8	Total.....	2	7.2	3681.....	1	1.0						
3443.....	2	1.7				3682.....	4	11.4						
Total.....	5	5.5				3671.....	5	7.8						
BANGOR						3673.....	1	.8						
2811.....	2	1.7				3679.....	3	2.0						
2821.....	2	1.7				3683.....	1	.8						
Total.....	4	3.4				3714.....	3	2.8						
						3722.....	2	1.8						
						3729.....	1	3.7						
						3731.....	1	7.8						
						3921.....	2	1.4						
						3822.....	1	2.2						
						3831.....	1	.8						
						3881.....	2	1.7						
						3871.....	2	1.1						
						3914.....	1	.8						
						3982.....	1	1.0						
						3983.....	1	.8						
						Total.....	143	171.4						
						BROCKTON								
						2299.....	1	.8						
						3141.....	3	1.9						
						Total.....	4	2.8						
												</		

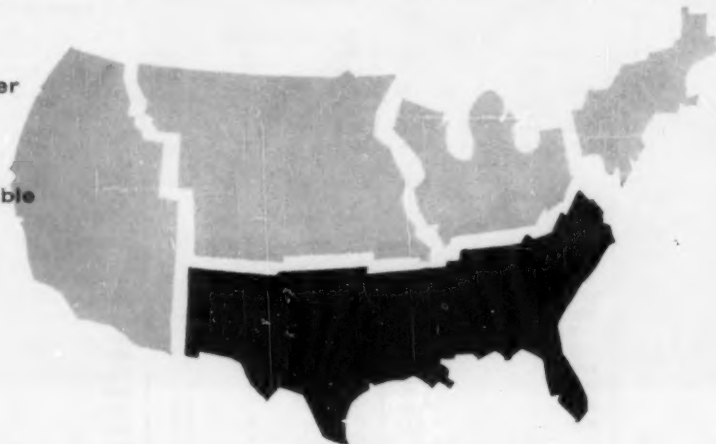
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Plant Locations in Metropolitan Areas by SIC Codes

Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)			
DETROIT (Cont'd)			3714.....	8	4.9	3530.....	1	.9	MISSISSIPPI			2023.....	1	.5			
3362.....	1	.7	3729.....	1	.9	3633.....	1	1.3	JACKSON			2004.....	1	.5			
3391.....	3	2.3	Total.....	11	9.9	3651.....	1	.9	2351.....	1	.5	2005.....	1	.5			
3429.....	1	.9	KALAMAZOO			3662.....	1	.9	2511.....	1	1.8	2046.....	1	.6			
3431.....	1	.9	2931.....	1	.9	3679.....	1	.9	3221.....	1	.7	2062.....	4	6.2			
3432.....	1	.5	2921.....	1	1.1	3714.....	4	4.8	3481.....	1	.9	2131.....	1	.6			
3433.....	2	3.2	2941.....	1	.9	Total.....	15	14.7	3639.....	1	.9	2221.....	1	1.0			
3441.....	2	3.0	2949.....	1	2.1	ΔPORT HURON			3729.....	1	.9	2311.....	2	1.2			
3442.....	3	3.7	2952.....	1	2.7	2990.....	1	1.1	Total.....	9	9.9	2336.....	2	1.3			
3482.....	4	2.4	2954.....	1	2.9	3315.....	1	.9	ΔBILOXI-GULFPORT			2365.....	1	.6			
3481.....	3	1.7	3001.....	1	.9	3494.....	1	3.4	2321.....	1	1.0	2514.....	1	.5			
3483.....	1	.9	3099.....	1	.5	3732.....	1	.9	ΔGREENVILLE			2621.....	1	1.2			
3484.....	1	.7	3711.....	1	.9	Total.....	4	6.1	2271.....	1	.9	2661.....	1	.5			
3619.....	4	10.6	3714.....	1	.9	MINNESOTA			ΔBILOXI-GULFPORT			2711.....	2	1.6			
3622.....	2	2.9	3729.....	1	.9	DULUTH-SUPERIOR			ΔMERIDIAN			2731.....	1	.5			
3631.....	1	.9	3849.....	1	.5	2933.....	1	.9	2432.....	1	.5	2815.....	1	.5			
3636.....	1	1.2	Total.....	12	14.4	2990.....	1	.9	Total.....	1	1.0	2816.....	1	1.5			
3641.....	2	1.9	LANSING			2321.....	2	1.0	ΔST. LOUIS			2819.....	2	4.8			
3644.....	4	2.3	3391.....	1	1.0	3312.....	1	.9	ΔGREENVILLE			2833.....	1	2.0			
3645.....	2	2.5	3433.....	1	1.3	3315.....	1	3.0	2271.....	1	.9	2834.....	1	.6			
3681.....	2	1.9	3522.....	1	.9	3601.....	1	1.0	Total.....	1	.9	2982.....	1	1.0			
3682.....	2	4.3	3622.....	1	.9	Total.....	7	6.5	ΔMERIDIAN			2911.....	3	5.7			
3684.....	1	1.3	3711.....	4	29.3	MINNEAPOLIS-ST. PAUL			MISSOURI			3131.....	1	.5			
3686.....	3	6.9	MUSKEGON-MUSKEGON			2011.....	2	7.3	KANSAS CITY			3141.....	6	4.8			
3689.....	1	2.5	HEIGHTS			2041.....	2	5.0	2011.....	3	6.1	3172.....	1	.9			
3622.....	2	2.2	2922.....	1	1.2	2042.....	3	4.1	2061.....	1	.9	3211.....	1	.9			
3689.....	1	1.5	2949.....	1	.9	2062.....	2	2.2	2062.....	1	.9	3221.....	2	4.9			
3711.....	10	122.9	3312.....	1	.9	2431.....	1	1.2	2326.....	1	1.0	3241.....	1	.9			
3712.....	1	.7	3321.....	2	3.7	2499.....	1	.5	2336.....	1	1.2	3312.....	3	6.1			
3714.....	43	87.1	3399.....	1	.9	2821.....	1	2.0	2663.....	1	.9	3323.....	3	5.2			
3715.....	3	14.1	3619.....	2	0.0	2841.....	1	0.7	2711.....	1	.9	3339.....	1	.9			
3722.....	3	3.2	3636.....	1	1.0	2851.....	1	1.3	2771.....	1	.9	3341.....	1	1.2			
3729.....	4	12.0	3632.....	1	1.0	2711.....	2	2.7	2841.....	2	1.9	3399.....	1	1.8			
3731.....	1	9.0	3714.....	2	2.0	2731.....	1	1.4	2861.....	2	1.1	3357.....	1	.7			
3742.....	1	.9	3849.....	1	2.4	2751.....	2	5.9	2882.....	1	1.0	3411.....	2	1.7			
3822.....	1	1.0	Total.....	13	21.9	2819.....	1	2.0	2883.....	1	.9	3442.....	1	.7			
Total.....	280	419.9	SAGINAW			2921.....	1	.7	2884.....	1	.9	3443.....	3	3.1			
FLINT			2011.....	1	.7	2942.....	1	1.0	2885.....	1	.9	3499.....	1	.5			
3429.....	1	7.4	3299.....	1	1.9	2944.....	2	1.8	2711.....	1	.9	3519.....	1	.9			
3711.....	1	2.3	3321.....	1	0.0	2992.....	1	.9	2841.....	2	1.9	3579.....	1	.9			
3714.....	8	94.9	3322.....	1	3.0	3411.....	1	.9	2861.....	2	1.1	3609.....	1	1.1			
Total.....	10	94.9	3449.....	1	.9	3449.....	1	.9	2882.....	1	.9	3699.....	1	.7			
GRAND RAPIDS			3519.....	2	2.0	3499.....	1	.9	2883.....	1	.9	3681.....	1	.9			
2082.....	1	.9	3571.....	1	4.5	3519.....	2	5.9	2884.....	2	1.1	3682.....	1	.7			
2922.....	1	1.0	3589.....	1	1.2	3531.....	3	3.2	2885.....	1	.9	3683.....	1	.5			
2931.....	1	1.0	3714.....	4	9.5	3571.....	1	4.5	2886.....	1	.9	3684.....	3	13.6			
2981.....	1	1.9	Total.....	10	23.2	3585.....	1	1.2	2887.....	1	.9	3714.....	2	2.7			
3099.....	1	.9	ΔBATTLE CREEK			3613.....	1	.9	2888.....	1	.9	3721.....	2	29.5			
3141.....	1	1.3	2943.....	3	5.1	3621.....	2	1.6	2889.....	1	.9	3729.....	2	2.8			
3429.....	4	3.7	2962.....	2	1.5	3632.....	1	1.4	2890.....	1	.9	3731.....	1	.7			
3431.....	1	.9	3229.....	1	1.3	3692.....	1	.9	2891.....	1	.9	3742.....	2	3.0			
3461.....	1	1.2	3322.....	1	.9	3711.....	1	1.9	2892.....	1	.9	3821.....	2	3.0			
3481.....	1	1.6	3481.....	2	1.3	3714.....	1	.9	2893.....	1	.9	3849.....	1	.6			
3544.....	1	.9	3522.....	1	1.2	3729.....	1	.9	ST. JOSEPH			Total.....	99	142.7			
3671.....	1	1.0	3537.....	1	1.9	3811.....	1	4.5	2011.....	2	3.4	SPRINGFIELD			2022.....	1	.9
3631.....	1	2.6	3714.....	1	.9	3821.....	1	4.5	2043.....	1	.9	2654.....	1	1.0			
3632.....	1	3.2	3729.....	2	2.2	3993.....	1	.9	2849.....	1	1.0	2721.....	1	.5			
3681.....	1	.7	Total.....	14	16.2	ΔROCHESTER			3699.....	1	1.0	3872.....	1	1.3			
3712.....	1	2.5	ΔBENTON HARBOR			ΔROCHESTER	1	2.0	ST. LOUIS			3715.....	1	.9			
3714.....	1	3.1	ST. JOSEPH			3671.....	1	2.0	ST. LOUIS			Total.....	5	4.1			
3829.....	1	.9	2949.....	1	.9	ΔST. CLOUD			ST. LOUIS			2871.....	1	1.0			
3811.....	1	3.9	3315.....	1	.9	ΔST. CLOUD	1	2.0	ST. LOUIS			2992.....	1	.7			
Total.....	22	32.5	3323.....	1	.9	Total.....	1	2.0	ST. LOUIS			3722.....	1	.7			
JACKSON			3423.....	1	.9	ΔST. LOUIS			ST. LOUIS			3829.....	1	1.4			
2011.....	1	1.5	3442.....	1	1.9	ΔST. LOUIS			ST. LOUIS			Total.....	4	3.3			
3429.....	1	.9	3637.....	1	1.3	ΔST. LOUIS			ST. LOUIS								
3481.....	1	1.0	ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
3589.....	1	.9	ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
3682.....	1	.9	ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
ΔDENOTES SM potential metropolitan area			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
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			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
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			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
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			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								
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			ΔST. LOUIS			ΔST. LOUIS			ST. LOUIS								

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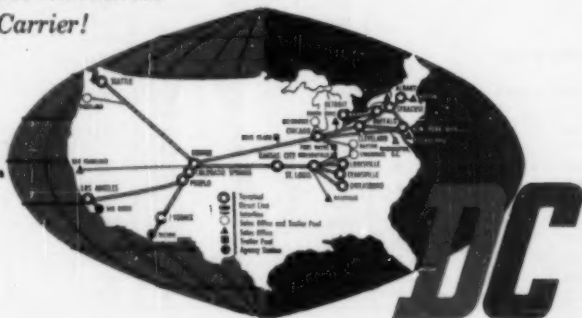
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the ONLY direct coast-to-coast carrier!



Plant Locations in Metropolitan Areas by SIC Codes

Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
MONTANA											
△GREAT FALLS											
3333	1	1.7	3293	1	.8	3673	1	1.5	2821	1	.8
Total	1	1.7	3312	2	1.9	3679	1	.8	2834	1	2.3
△BUTTE-ANACONDA											
3331	1	3.9	3315	1	.5	3681	1	3.0	2892	1	1.9
3333	1	2.0	3336	1	.8	3694	3	3.1	2911	1	1.4
Total	2	5.9	3411	1	2.4	3711	4	8.7	3292	2	4.8
NEBRASKA											
3099	1	.8	3429	1	1.0	3714	1	1.4	3331	3	4.6
3751	1	.5	3432	1	.8	3722	2	2.5	3357	1	1.8
3871	1	2.2	3433	1	.8	3811	1	1.2	3441	1	.8
Total	3	3.5	3634	1	1.4	3821	1	.5	3443	1	.7
LINCOLN											
3099	1	.8	3861	1	2.5	3861	1	.8	3648	1	.8
3751	1	.5	3862	1	1.9	3841	2	2.8	3644	1	2.2
3871	1	2.2	3889	1	1.0	3864	1	1.0	3699	1	.8
Total	3	3.5	3891	1	.5	3899	2	2.8	3629	1	.5
OMAHA											
2811	5	11.4	3821	1	.7	Total	88	197.2	3671	1	1.8
2851	1	.7	3831	1	.8	FATERSON-CLIFTON-PASSAIC			3679	3	4.3
2892	1	.5	3842	2	1.1	2082	2	1.2	3891	1	.8
2899	1	.8	3861	3	9.5	2086	1	.8	3711	1	1.7
2711	1	.6	3891	2	17.7	2231	3	3.4	3641	2	3.8
3441	1	.8	3739	2	1.8	2291	3	2.2	3842	1	.8
3511	1	.8	3841	1	.8	2271	1	.8	3891	1	1.2
3661	1	.5	3911	1	.8	2321	1	.7	3899	1	1.5
3679	1	.5	3961	1	.5	2844	1	.8	Total	33	48.7
Total	13	16.5	3982	1	.7	2882	1	.9	△VINELAND-BRIDGETON		
NEVADA											
3339	1	.5	Total	48	60.6	2962	1	1.0	2827	1	2.3
Total	1	.5	NEWARK			3080	3	4.8	2211	1	.7
NEW HAMPSHIRE											
2071	1	.7	2051	3	2.0	3352	1	.8	3221	4	5.0
2086	4	3.7	2062	1	.8	3357	1	1.1	3229	1	2.0
2111	1	.9	2071	1	.5	3399	1	.5	Total	7	9.9
2342	1	1.5	2082	4	4.1	3411	1	1.0	NEW MEXICO		
2848	1	.5	2086	1	1.8	3429	1	.5	ALBUQUERQUE		
2781	3	2.2	2261	1	.7	3866	1	.5	2919	1	.8
2821	1	.8	2271	2	1.3	3821	1	.8	3541	1	2.0
2941	1	4.0	2295	1	.8	3829	1	.5	Total	2	2.8
2911	2	4.2	2321	1	.7	3861	3	5.8	NEW YORK		
2961	1	1.0	2515	1	1.6	3873	1	.7	ALBANY-SCHENECTADY-TROY		
3221	1	.5	2648	1	.8	3714	1	3.3	2011	1	1.0
NEW JERSEY											
2071	1	.7	2711	2	1.6	3722	1	1.8	2061	1	.8
2086	4	3.7	2732	1	.8	3732	2	1.1	2231	1	1.3
2111	1	.9	2815	1	1.7	3742	1	.8	2256	1	.7
2342	1	1.5	2818	1	.6	3811	2	4.8	2271	1	1.8
2848	1	.5	2819	1	.7	3841	1	2.0	2321	1	2.8
2781	3	2.2	2821	1	.8	3864	1	.8	2329	2	1.9
2821	1	.8	2833	1	2.4	Total	38	43.8	2621	2	2.6
2941	1	4.0	2834	6	4.8	TRENTON			2684	1	.8
2911	2	4.2	2844	1	.8	2121	1	.7	3634	1	.9
2961	1	1.0	2892	1	6.0	2329	1	.5	3681	1	.8
3221	1	.5	2911	1	3.4	2641	1	1.2	3681	1	2.0
NEW YORK											
2011	1	.9	3089	1	1.2	3079	1	.5	3679	3	3.8
2013	1	1.1	3315	1	.8	3261	2	1.8	3691	1	.5
2061	11	10.2	3351	1	.5	3282	1	.5	3714	8	27.0
2082	2	4.3	3357	1	.8	3292	1	1.5	3721	2	2.6
2082	3	3.3	3411	1	.9	3315	2	1.4	3722	8	7.0
2071	6	5.4	3421	1	.5	3429	1	5.3	3829	2	8.5
2072	1	.8	3482	1	1.2	3433	1	.5	3831	1	1.5
2073	2	1.9	3548	1	1.3	3441	1	.7	NEW YORK		
2082	3	9.4	3555	1	1.1	3481	1	.8	2011	1	.9
2086	1	.5	3589	1	1.0	3581	1	2.0	2013	1	1.1
2086	1	.5	3581	1	.5	3611	1	2.0	2061	11	10.2
2086	1	.5	3582	1	1.4	3612	1	1.4	2082	2	4.3
2086	1	.5	3571	1	1.1	3613	2	4.1	2082	3	3.3
2086	1	.5	3579	1	.9	3621	1	.8	2071	6	5.4
2086	1	.5	3581	1	.8	3622	1	.5	2072	1	.8
2086	1	.5	3585	1	1.0	3636	1	7.6	2073	2	1.9
2086	1	.5	3571	1	.5	3639	1	.5	2082	3	9.4
2086	1	.5	3611	1	2.0	3641	2	1.8	2086	1	.5
2086	1	.5	3612	1	1.4	3643	2	1.8	2086	1	.5
2086	1	.5	3613	2	4.1	3651	2	2.1	2086	1	.5
2086	1	.5	3621	1	.8	3671	1	.5	2086	1	.5
2086	1	.5	3622	1	.5	△NEW BRUNSWICK-PERTH AMBOY			2086	1	.5
2086	1	.5	3636	1	7.6	2522	1	.8	2086	1	.5
2086	1	.5	3639	1	.5	2641	1	.5	2086	1	.5
2086	1	.5	3641	2	1.8	2781	1	1.7	2086	1	.5
2086	1	.5	3643	2	1.8	2815	1	3.7	2086	1	.5
2086	1	.5	3651	2	2.1	2816	1	1.8	2086	1	.5
2086	1	.5	3671	1	.5	2818	1	1.8	2086	1	.5
2086	1	.5	NEW YORK			2818	1	1.8	2086	1	.5
2086	1	.5	NEW YORK			2822	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2823	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2824	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2825	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2826	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2827	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2828	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2829	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2830	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2831	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2832	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2833	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2834	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2835	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2836	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2837	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2838	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2839	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2840	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2841	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2842	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2843	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2844	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2845	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2846	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2847	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2848	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2849	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2850	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2851	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2852	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2853	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2854	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2855	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2856	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2857	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2858	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2859	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2860	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2861	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2862	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2863	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2864	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2865	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2866	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2867	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2868	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2869	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2870	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2871	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2872	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2873	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2874	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2875	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2876	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2877	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2878	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2879	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2880	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2881	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2882	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2883	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2884	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2885	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2886	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2887	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2888	1	.8	2086	1	.5
2086	1	.5	NEW YORK			2889	1	.8	2086	1	

△ Denotes SM potential metropolitan area

© SM, 1960.

here's the essence of persuasive packaging



The Answer Man! Got a question about packaging? Your **Gardner Sales Representative** has the answer—resourceful, sales-powered Persuasive Packaging.



New! Whether Predictor! To buy, or not to buy? **Gardner Market Research** finds the answers and the reasons why—to guide the development of your package.



Shape of Things to Come! In **Gardner Structural Design** market-oriented ideas achieve form and function. Creativity is shaped by utilitarian and sales factors.



What does an idea look like? Guided by research, **Gardner Graphic Design** applies color, type, and imagination to produce a design that changes lookers into buyers.



Nuts and Bolts! **Gardner Machine Application** adapts your production machinery to your new packaging program—efficiently and most economically!



* Hypothesis meets the Housewife! Is it really a good idea? Will it sell? If it passes **Gardner Package Testing**, you'll see it—if not, back to the drawing board.

HYPOTHESIS MEETS THE

HOUSEWIFE! If your new Persuasive Package gets the "go" signal here, you've got a best seller on your hands. Up to this point, your new Persuasive Package is just a good packaging idea. Market Research told us what your package should be and do. Structural Design contributed the shape and function. Graphic Design added the flair. The question now is will she buy it? Gardner Package Testing will furnish the answer. ¶ Success here converts hypothesis to handwriting on the wall—an important line on your sales chart, going **up!** If we detect a selling weakness in the design, the package goes back to the drawing boards for an agonizing reappraisal. ¶ Gardner Package Testing can help you set up any controlled market testing situation you might need—from consumer panels to actual market tests. ¶ Isn't Persuasive Packaging the kind of resourceful, completely coordinated approach you want for your packaging program?



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MIDDLETOWN, OHIO

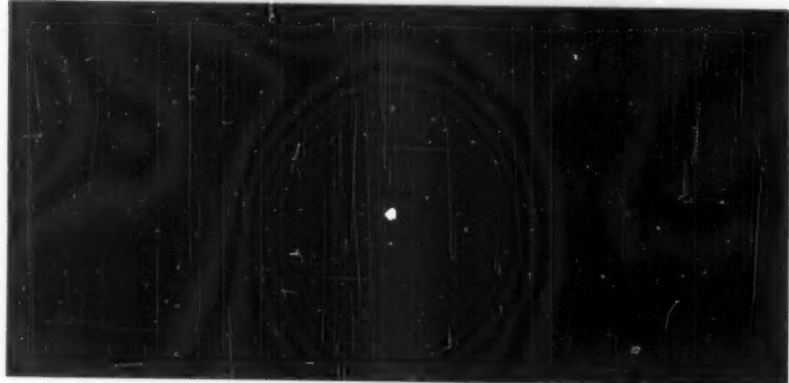
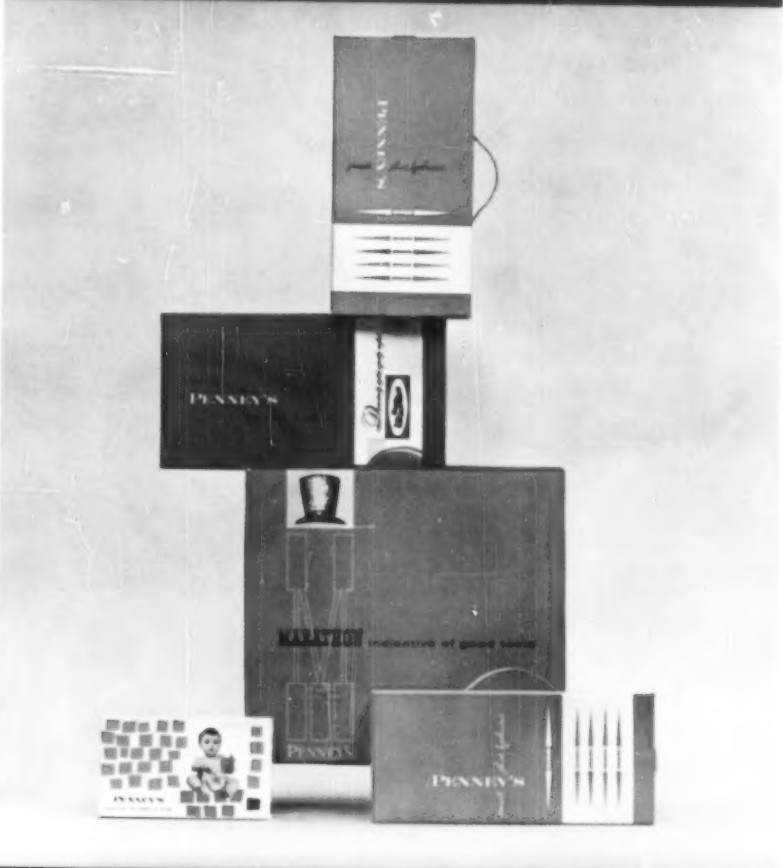


EXAMPLE OF GARDNER PERSUASIVE PACKAGING

Whenever you see a J. C. Penney store, you'll see Gardner Persuasive Packaging on the job. Chances are, it'll be **Redi-Tote**, the best thing that's happened to shoe boxes, or the new **Redi-Topper** (a hat box, what else?) Both are perfect examples of Gardner's all-round packaging ingenuity. We invented 'em. ¶ Actually, J. C. Penney was the first major retailer to see the merits of, and demand **Redi-Tote**. So recently, when one of our Sales Representatives suggested adapting the **Redi-Tote** principle for packaging other products, we took the idea to Penney. They liked it. **Redi-Topper** is the result. ¶ Penney supplied the appealing graphic design. Gardner **Structural Design** made structural modifications, including an easier opening, better-holding locking top. Gardner Machine Application specialists journeyed to the factories of the firms who supply Penney with men's hats to insure efficient and economical handling of the new **Redi-Topper** on their machines. ¶ Another example of Gardner's creative concept of total packaging service—Persuasive Packaging. Got a new packaging program coming up? We'd like to show you what we can do.



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MIDDLETOWN, OHIO



Plant Locations in Metropolitan Areas by SIC Codes

Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
NEW YORK (Cont'd)			ROCHESTER			3722			3729			DURHAM			NORTH DAKOTA		
2004	1	.6	2011	1	1.9	3722	4	5.8	3729	1	1.8	2111	1	.7	△GRAND FORKS-EAST GRAND FORKS		
2009	4	2.4	2033	4	3.3	3729	1	3.6	3729	1	1.8	2141	2	1.4	2003	1	.5
2211	1	.5	2071	1	1.1	3949	1	.5	Total	8	5.8	2211	1	.7	Total	1	.5
2251	1	.7	2082	1	.6	Total	28	34.1	OHIO			2211	1	.7	AKRON		
2311	10	8.3	2311	5	6.9	△AUBURN			GREENSBORO-HIGH POINT			2251	3	2.0	2043	1	.8
2335	1	.5	2387	1	1.1	2298	1	1.0	2111	1	3.0	2251	3	2.0	2711	1	.6
2342	1	.5	2522	1	.5	3079	1	.8	2211	4	4.9	2251	3	2.0	2812	1	2.0
2599	1	.6	2711	1	.5	3121	1	1.1	2251	3	2.0	2251	3	2.0	3011	8	42.3
2649	1	1.9	2731	1	.6	3519	1	1.4	2251	3	2.0	2251	3	2.0	3011	8	42.3
2801	2	1.7	2781	1	.9	3682	1	.8	2251	3	2.0	2251	3	2.0	3011	8	42.3
2711	11	21.2	3411	1	.6	Total	5	5.1	2251	3	2.0	2251	3	2.0	3011	8	42.3
2721	11	12.8	3411	2	3.0	△ELMIRA			2251	3	2.0	2251	3	2.0	3011	8	42.3
2731	4	2.8	3689	1	.7	3221	1	1.4	2251	3	2.0	2251	3	2.0	3011	8	42.3
2732	2	1.5	3671	1	1.0	3441	1	.7	2251	3	2.0	2251	3	2.0	3011	8	42.3
2741	1	1.0	3682	1	.9	3494	1	.6	2251	3	2.0	2251	3	2.0	3011	8	42.3
2752	2	1.2	3673	1	1.7	3572	1	6.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
2753	1	1.2	3679	2	4.0	3679	1	1.3	2251	3	2.0	2251	3	2.0	3011	8	42.3
2761	1	.6	3714	1	4.2	3714	2	2.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
2771	3	3.2	3723	1	.5	Total	7	12.4	2251	3	2.0	2251	3	2.0	3011	8	42.3
2792	1	.6	3742	1	1.3	△JAMESTOWN			2251	3	2.0	2251	3	2.0	3011	8	42.3
2799	2	1.0	3821	1	2.3	2283	1	.9	2251	3	2.0	2251	3	2.0	3011	8	42.3
2810	1	3.8	3831	2	1.9	2522	1	1.6	2251	3	2.0	2251	3	2.0	3011	8	42.3
2821	1	.7	3843	1	1.2	3312	1	2.1	2251	3	2.0	2251	3	2.0	3011	8	42.3
2834	3	6.5	3881	3	8.0	3423	1	.6	2251	3	2.0	2251	3	2.0	3011	8	42.3
2841	1	1.4	3881	5	27.0	3443	1	1.3	2251	3	2.0	2251	3	2.0	3011	8	42.3
2844	5	3.9	3911	1	.5	3538	1	.7	2251	3	2.0	2251	3	2.0	3011	8	42.3
2911	1	.6	3931	1	.5	3682	1	1.6	2251	3	2.0	2251	3	2.0	3011	8	42.3
3009	1	1.0	Total	46	96.6	3729	1	1.0	2251	3	2.0	2251	3	2.0	3011	8	42.3
3079	2	2.2	SYRACUSE			Total	8	9.8	2251	3	2.0	2251	3	2.0	3011	8	42.3
3141	1	1.0	2006	1	.6	△NEWBURGH			2251	3	2.0	2251	3	2.0	3011	8	42.3
3291	1	.6	2311	1	.7	2271	1	.6	2251	3	2.0	2251	3	2.0	3011	8	42.3
3331	1	1.3	2812	1	2.3	2299	1	1.0	2251	3	2.0	2251	3	2.0	3011	8	42.3
3381	2	2.5	2833	1	1.1	Total	2	1.6	2251	3	2.0	2251	3	2.0	3011	8	42.3
3392	1	.5	3282	1	1.6	△POUGHKEEPSIE			2251	3	2.0	2251	3	2.0	3011	8	42.3
3396	1	.6	3312	1	3.1	2653	1	.5	2251	3	2.0	2251	3	2.0	3011	8	42.3
3411	3	2.7	3381	1	.9	2761	1	1.9	2251	3	2.0	2251	3	2.0	3011	8	42.3
3433	1	.8	3542	2	1.0	3522	1	1.4	2251	3	2.0	2251	3	2.0	3011	8	42.3
3442	1	1.1	3582	1	.8	3562	1	.9	2251	3	2.0	2251	3	2.0	3011	8	42.3
3452	3	2.1	3582	1	1.3	3571	1	9.3	2251	3	2.0	2251	3	2.0	3011	8	42.3
3481	1	.6	3586	1	9.2	3681	1	.5	2251	3	2.0	2251	3	2.0	3011	8	42.3
3491	1	.5	3579	1	2.3	Total	8	14.5	2251	3	2.0	2251	3	2.0	3011	8	42.3
3497	1	.5	3633	1	1.1	△WATERTOWN			2251	3	2.0	2251	3	2.0	3011	8	42.3
3511	1	.5	3643	1	.6	2821	1	1.9	2251	3	2.0	2251	3	2.0	3011	8	42.3
3534	2	2.5	3671	2	11.0	3534	1	.7	2251	3	2.0	2251	3	2.0	3011	8	42.3
3554	1	.5	3679	2	1.4	3729	1	3.0	2251	3	2.0	2251	3	2.0	3011	8	42.3
3586	4	5.9	3711	1	1.2	Total	3	5.0	2251	3	2.0	2251	3	2.0	3011	8	42.3
3579	1	.5	3711	1	.9	△WILMINGTON			2251	3	2.0	2251	3	2.0	3011	8	42.3
3591	2	2.5	3713	1	.8	2211	1	.5	2251	3	2.0	2251	3	2.0	3011	8	42.3
3611	2	1.1	3714	1	1.5	2211	2	1.6	2251	3	2.0	2251	3	2.0	3011	8	42.3
3613	1	.7	3722	1	2.8	2261	1	.7	2251	3	2.0	2251	3	2.0	3011	8	42.3
3619	1	2.2	3914	1	2.8	Total	7	10.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3621	1	.7	Total	25	86.8	△WILMINGTON			2251	3	2.0	2251	3	2.0	3011	8	42.3
3622	1	1.5	UTICA-ROME			2082	1	.7	2251	3	2.0	2251	3	2.0	3011	8	42.3
3639	1	1.2	2753	1	.9	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3683	5	4.5	2254	1	.9	2251	2	1.4	2251	3	2.0	2251	3	2.0	3011	8	42.3
3681	2	1.8	2824	1	.8	Total	7	10.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3682	5	4.0	3141	2	1.3	△WILMINGTON			2251	3	2.0	2251	3	2.0	3011	8	42.3
3671	2	2.0	3142	2	1.1	2082	1	.7	2251	3	2.0	2251	3	2.0	3011	8	42.3
3679	2	1.4	3315	1	1.6	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3711	2	5.0	3351	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3721	5	33.3	3357	1	1.0	2251	2	1.4	2251	3	2.0	2251	3	2.0	3011	8	42.3
3722	1	1.0	3421	1	.5	△WILMINGTON			2251	3	2.0	2251	3	2.0	3011	8	42.3
3729	3	3.8	3481	3	2.8	2082	1	.7	2251	3	2.0	2251	3	2.0	3011	8	42.3
3731	4	5.9	3499	1	.8	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3811	10	29.6	3531	1	2.0	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3821	1	1.3	3542	1	2.0	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3831	1	.5	3551	1	.8	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3843	1	1.0	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3861	3	3.7	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3871	1	3.0	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3942	1	.6	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3952	1	.8	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3955	1	.5	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3964	1	.6	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3961	1	.6	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
3962	1	.9	3571	1	2.5	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3
Total	201	289.8	3679	3	3.0	2211	1	1.2	2251	3	2.0	2251	3	2.0	3011	8	42.3

△ Denotes SM potential metropolitan area

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Breakdown by individual states gives statistics for manufacturing plants and number of employees. SIC classifications are used.



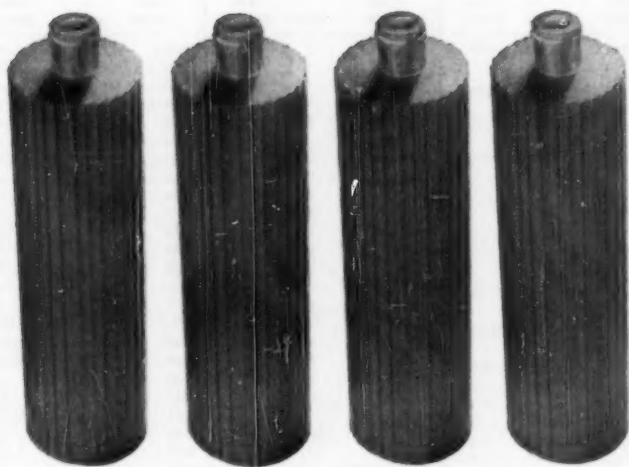
Individual, color-keyed maps show county markets by state, giving number of workers in manufacturing plants employing 100 or more.

Plant Locations in Metropolitan Areas by SIC Codes

SM Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
CINCINNATI (Cont'd)			3545.....	2	1.0	3723.....	1	1.0	3507.....	1	.6	3562.....	1	2.4
2944.....	1	.5	3555.....	1	.7	Total.....	30	65.9	3579.....	1	1.0	3601.....	2	3.3
2982.....	1	1.2	3589.....	3	1.7	HAMILTON-MIDDLETOWN			3694.....	2	4.3	Total.....	4	6.2
3079.....	1	1.6	3591.....	1	.5	3621.....	3	5.7	3711.....	1	5.5	△ZANESVILLE		
3253.....	1	.6	3579.....	1	2.0	3641.....	1	.7	3714.....	2	3.9	3221.....	1	.9
3312.....	1	1.7	3589.....	1	1.2	3312.....	1	8.0	3722.....	1	1.1	3283.....	1	1.2
3339.....	1	2.5	3611.....	1	.5	3482.....	2	1.6	3731.....	1	.6	3312.....	1	.5
3361.....	1	.9	3621.....	3	2.1	3542.....	1	2.0	Total.....	30	37.6	3611.....	2	1.3
3411.....	1	.6	3622.....	2	1.4	3631.....	1	.7	YOUNGSTOWN-WARREN			Total.....	5	3.9
3431.....	1	1.3	3623.....	1	1.2	3714.....	1	4.5	2822.....	1	4.0	OKLAHOMA		
3433.....	1	.6	3624.....	1	.9	3729.....	2	2.9	3089.....	1	1.1	OKLAHOMA CITY		
3442.....	1	.6	3631.....	1	.6	Total.....	12	26.1	3111.....	1	.6	2711.....	1	.7
3461.....	2	1.2	3636.....	1	.5	LIMA			3263.....	1	.5	3441.....	1	.7
3494.....	2	1.5	3641.....	2	1.2	2911.....	1	.5	3312.....	13	51.8	3533.....	1	.7
3541.....	3	9.7	3642.....	1	.5	3323.....	1	.6	3319.....	1	5.7	Total.....	3	2.1
3542.....	2	1.0	3679.....	1	.6	3519.....	1	1.4	3369.....	1	.9	TULSA		
3594.....	1	.5	3691.....	1	.9	3631.....	1	1.3	3442.....	1	1.8	2211.....	1	1.1
3596.....	1	.6	3692.....	1	.6	3621.....	1	2.2	3443.....	1	.6	2711.....	1	.8
3582.....	1	.6	3711.....	1	7.1	3722.....	1	1.1	3461.....	1	.8	2911.....	1	1.5
3613.....	1	.8	3714.....	15	33.2	3791.....	1	1.0	3490.....	1	.7	3323.....	1	.6
3621.....	1	1.0	3722.....	2	2.7	Total.....	7	9.1	3542.....	1	.5	3443.....	1	1.2
3634.....	1	1.2	3729.....	4	10.9	LORAIN-ELYRIA			3641.....	2	1.5	3533.....	2	1.4
3671.....	1	1.0	3741.....	1	.6	2821.....	1	.9	3679.....	1	.5	3721.....	1	4.9
3679.....	2	3.9	3821.....	1	1.8	3291.....	1	.8	3714.....	2	3.6	3791.....	1	.7
3711.....	1	1.8	Total.....	110	198.0	3312.....	1	8.0	3722.....	1	.9	Total.....	9	12.4
3712.....	1	2.3	COLUMBUS			3423.....	1	.7	3742.....	2	2.0	ONEGON		
3714.....	1	6.0	2929.....	1	.9	3451.....	1	.5	Total.....	34	79.6	EUGENE		
3716.....	1	1.4	2961.....	1	.5	3531.....	1	1.6	△ASHTABULA			2033.....	1	.9
3722.....	4	14.1	2982.....	1	.6	3621.....	1	1.2	2013.....	1	1.1	2021.....	1	1.6
3831.....	1	2.0	2296.....	1	1.3	3714.....	3	4.8	2423.....	1	.5	Total.....	2	2.2
3949.....	1	1.2	2649.....	1	.6	3719.....	1	.9	2621.....	1	.5	PORTLAND		
Total.....	66	89.9	2711.....	1	1.0	3729.....	1	.5	2791.....	1	.7	2033.....	1	.9
CLEVELAND			2821.....	1	.5	3731.....	1	.7	2911.....	1	2.2	2082.....	1	.6
2011.....	1	.9	3141.....	1	.9	SPRINGFIELD			3089.....	1	.5	2231.....	1	.5
2026.....	1	.6	3229.....	2	2.3	2721.....	1	2.7	3312.....	3	2.6	2293.....	1	1.9
2082.....	1	1.2	3322.....	1	5.0	3323.....	1	.6	3461.....	1	2.6	2421.....	2	2.1
2253.....	1	.6	3429.....	1	4.7	3519.....	1	.5	3481.....	1	.5	2432.....	1	4.0
2281.....	1	2.3	3433.....	2	1.0	3621.....	1	1.4	3619.....	1	.9	2433.....	1	.6
2311.....	2	5.5	3452.....	1	.5	3713.....	1	3.6	3631.....	1	1.0	2811.....	1	.7
2339.....	1	.6	3461.....	1	.5	3729.....	1	.7	3639.....	2	6.0	2911.....	1	.5
2319.....	1	.5	3481.....	1	.5	Total.....	13	26.9	Total.....	10	14.8	2921.....	1	2.0
2342.....	1	1.1	3531.....	2	2.9	STEUBENVILLE-WEIRTON			△MANSFIELD			2949.....	1	.5
2343.....	2	1.7	3542.....	1	.6	3263.....	3	4.6	2791.....	1	.5	2711.....	2	1.3
2711.....	2	3.2	3562.....	1	.6	3312.....	8	24.7	2911.....	1	2.2	3223.....	1	.8
2721.....	1	.6	3582.....	1	2.1	3369.....	1	.7	3312.....	3	2.6	3334.....	2	2.2
2731.....	1	.5	3595.....	1	.7	TOLEDO			3461.....	1	.5	3411.....	1	.7
2771.....	1	2.1	3605.....	1	.7	2999.....	1	.5	3441.....	1	.7	3441.....	1	.7
2812.....	1	3.0	3632.....	1	3.8	2296.....	1	.6	3461.....	1	.5	3443.....	1	.9
2818.....	1	.5	3679.....	1	.6	2711.....	2	1.5	3714.....	1	.8	3537.....	1	.8
2823.....	1	1.3	3721.....	1	10.8	2999.....	2	1.8	Total.....	4	6.6	3729.....	1	.7
2851.....	2	1.0	3821.....	1	.9	3229.....	1	1.5	△MARION			3731.....	1	.6
2873.....	1	.8	Total.....	26	42.6	3312.....	1	.7	3831.....	1	1.1	Total.....	23	22.6
2911.....	1	1.1	DAYTON			3323.....	1	.7	3899.....	1	.5	△PORTSMOUTH		
3099.....	1	1.4	2962.....	1	.5	3361.....	1	.6	2919.....	1	2.4	2919.....	1	2.4
3312.....	6	10.4	2711.....	1	.9	3399.....	1	3.0	3141.....	2	3.7	3141.....	2	3.7
3315.....	2	1.6	2751.....	2	4.0	3429.....	1	.7	3312.....	1	2.6	Total.....	4	8.9
3317.....	1	.6	2761.....	1	1.7	△NEWARK			△SANDUSKY			2931.....	1	.5
3321.....	2	1.1	3011.....	1	2.2	3296.....	1	.5	△SALEM			Total.....	1	1.2
3322.....	1	1.2	3069.....	2	1.0	2711.....	2	1.5	2033.....	1	1.2	△DENVER		
3351.....	1	2.1	3241.....	1	.5	2999.....	2	1.8	△DENVER			△DENVER		
3361.....	3	3.4	3321.....	2	1.5	3229.....	1	1.5	△DENVER			△DENVER		
3391.....	1	.9	3545.....	1	.8	3231.....	1	3.4	△DENVER			△DENVER		
3399.....	1	.5	3551.....	1	1.4	3312.....	1	.7	△DENVER			△DENVER		
3429.....	2	1.0	3555.....	1	.5	3323.....	1	.7	△DENVER			△DENVER		
3433.....	1	.6	3561.....	1	.5	3361.....	1	.6	△DENVER			△DENVER		
3451.....	1	.6	3564.....	1	.5	3399.....	1	3.0	△DENVER			△DENVER		
3452.....	4	5.0	3571.....	1	14.8	3429.....	1	.7	△DENVER			△DENVER		
3461.....	2	5.0	3579.....	1	.5	3461.....	4	2.4	△DENVER			△DENVER		
3481.....	2	1.0	3621.....	5	4.8	3533.....	1	1.2	△DENVER			△DENVER		
3494.....	1	1.0	3622.....	1	13.4	3542.....	1	.6	△DENVER			△DENVER		
3519.....	2	1.7	3694.....	1	5.9	3561.....	1	1.0	△DENVER			△DENVER		
3522.....	1	.6	3714.....	2	6.2	3566.....	1	.5	△DENVER			△DENVER		
3531.....	4	4.3	△DENVER			△DENVER			△DENVER			△DENVER		
3535.....	2	2.5	△DENVER			△DENVER			△DENVER			△DENVER		
3536.....	3	1.7	△DENVER			△DENVER			△DENVER			△DENVER		
3641.....	1	1.4	△DENVER			△DENVER			△DENVER			△DENVER		
3642.....	1	.6	△DENVER			△DENVER			△DENVER			△DENVER		

△ Denotes SM potential metropolitan area



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Plant Locations in Metropolitan Areas by SIC Codes

Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
PENNSYLVANIA														
ALLENTOWN-BETHLEHEM-EASTON			3321	1	12.4	3401	2	3.7	3545	3	2.5	LEBANON		
2121	1	.5	3323	1	1.9	3481	1	1.5	3548	2	3.9	3312	1	2.3
2221	1	.5	3509	1	.5	3484	1	.9	3612	2	2.7	3323	1	.9
2251	1	.5	Total	5	16.0	3496	1	.5	3622	5	7.4	Total	2	3.2
2311	1	.6	LANCASTER			3499	1	2.4	3639	1	1.2	NEW CASTLE		
2321	1	.7	2121	1	.5	3519	2	1.5	3643	2	2.3	3262	1	1.4
2396	1	.5	2254	1	.6	3535	1	.9	3651	1	1.7	3269	1	1.2
2649	1	1.2	3292	1	1.1	3537	1	3.6	3699	1	5.7	3312	1	1.6
2711	1	.6	3429	1	.8	3552	2	1.4	3711	2	3.9	3496	1	2.3
2751	1	.6	3432	1	1.9	3554	1	.8	3714	1	.8	3542	2	2.0
2818	1	.6	3461	1	.5	3559	1	.6	3731	1	1.0	Total	6	8.5
2819	1	.6	3522	1	1.7	3562	2	3.8	3741	1	8.3	SHARON-FARRELL-SHARPSVILLE		
3241	1	.6	3591	1	.5	3566	2	1.0	3742	1	1.2	3312	1	4.9
3312	2	1.0	3639	1	2.0	3609	1	.5	3821	2	2.4	3323	1	.5
3441	2	19.9	3671	1	3.5	3622	3	8.9	3842	1	1.3	3331	1	.7
3461	1	.5	3871	1	2.1	3639	2	1.4	Total	127	226.6	3443	1	.6
3561	1	4.1	3941	1	.7	3642	1	.7	READING			3819	1	2.0
3585	1	.6	3982	1	4.0	3643	1	.6	0971	1	.9	3612	1	7.3
3611	1	1.3	Total	13	18.9	3651	9	28.4	2241	1	.6	3742	1	.5
3613	2	1.9	PHILADELPHIA			3671	1	2.8	2251	1	3.7	Total	7	16.5
3661	1	.6	2033	2	7.0	3679	1	1.2	2329	1	.6	WILLIAMSPORT		
3671	1	3.2	2051	6	5.0	3691	1	1.2	2655	1	.6	2241	1	.7
3711	1	3.8	2052	2	1.6	3711	3	4.0	3312	1	2.4	2321	1	.7
Total	25	44.5	2062	2	2.6	3714	3	2.6	3494	1	1.0	2649	1	.5
ALTOONA			2071	1	2.2	3543	1	1.0	3543	1	1.0	3312	1	1.0
2253	1	.6	2072	1	.5	3552	2	4.3	3631	1	1.0	3609	1	.6
2751	2	1.4	2082	1	.9	3631	1	1.0	3714	1	2.0	3641	1	1.9
3671	1	.6	2085	1	1.1	3714	1	2.0	3988	1	.5	3722	1	2.9
Total	4	2.6	2099	1	.8	Total	13	18.6	Total	13	18.6	Total	7	6.3
ERIE			2121	4	5.1	SCRANTON			RHODE ISLAND					
2522	1	.6	2231	2	1.2	2282	2	1.1	PROVIDENCE-PAWTUCKET					
2621	1	2.1	2253	1	.6	2290	1	.5	2082	1	.7	2211	2	1.1
3069	2	1.5	2261	1	.7	2327	2	1.3	2221	1	.6	2221	1	.6
3292	1	.7	2311	5	4.2	2732	2	1.1	2261	1	.5	2261	1	.5
3321	1	1.6	2329	3	1.9	3079	1	.6	2269	3	4.6	2297	1	.5
3432	1	.6	2335	2	1.6	3299	1	.7	2297	1	.5	2361	1	1.0
3443	1	.6	2352	1	.2	3652	1	.7	2711	1	1.0	2711	1	1.0
3481	1	.6	2363	1	.7	3811	1	1.5	3021	1	.9	3069	3	3.3
3531	1	1.3	2621	3	3.5	Total	12	8.1	3229	1	.6	3315	2	1.4
3585	1	4.0	2641	1	.5	WILKES BARRE-HAZELTON			3315	1	.5	3351	2	1.1
3632	1	5.2	2651	1	1.7	2082	1	.5	3421	1	.9	3421	1	.9
3714	1	.8	2711	4	6.7	2121	8	3.5	3423	1	1.6	3423	1	1.6
3721	1	.8	2721	2	7.0	2221	1	.7	3484	1	1.0	3541	1	6.9
3722	1	.8	2751	2	1.5	2321	1	1.0	3545	1	.8	3545	1	.8
3741	1	4.5	2812	1	.8	2342	1	.5	3582	1	1.2	3582	1	1.2
3842	1	.7	2815	2	2.7	2763	1	.5	3609	1	.7	3609	1	.7
3941	2	1.6	2818	1	2.1	3141	1	.5	3643	8	4.0	3643	8	4.0
Total	19	28.0	2819	1	.7	3315	2	1.4	3679	1	.8	3679	1	.8
HARRISBURG			2821	2	8.4	3715	1	.5	3821	1	.7	3821	1	.7
2872	1	3.4	2824	1	1.3	Total	14	9.1	3822	1	1.0	3822	1	1.0
2271	1	1.0	2834	5	4.9	YORK			3872	1	1.0	3872	1	1.0
2711	1	.5	2851	1	1.2	2003	1	.8	3911	2	1.1	3911	2	1.1
3611	1	.5	2911	6	14.9	2321	1	.7	3941	1	.6	3941	1	.6
3141	2	1.4	2982	1	.5	2342	1	.5	3981	1	4.4	3981	1	4.4
3312	3	7.3	3011	3	5.1	2732	2	1.1	3982	1	.7	3982	1	.7
3391	1	.7	3069	2	1.2	3079	1	.6	Total	14	13.3	Total	47	48.6
3442	1	.7	3079	3	1.8	3111	2	1.1						
3443	1	.8	3111	2	1.1	3253	1	.6						
3843	1	1.2	3253	1	.6	3259	1	.6						
3722	1	1.8	3291	1	.6	3292	1	1.0						
Total	14	19.3	3312	9	18.5	3317	1	1.0						
JOHNSTOWN			3317	1	1.0	3321	1	1.2						
2335	1	.6	3321	1	1.2	3323	1	1.2						
3312	1	.6	3391	1	.7	3425	1	1.8						
			3425	1	1.8	3433	1	.6						
			3433	1	.6	3441	2	2.4						
			3441	2	2.4	3442	2	1.2						
			3442	2	1.2	3443	2	2.0						
			3443	2	2.0	3452	2	2.3						
			3452	2	2.3									

Plant Locations in Metropolitan Areas by SIC Codes



Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
SOUTH CAROLINA			MEMPHIS			EL PASO			UTAH			△DANVILLE		
CHARLESTON			2051	1	.5	3651	1	2.1	2141	1	.7	2141	1	.7
2121	1	1.3	2261	1	.5	3679	4	11.4	2711	1	11.0	2211	1	11.0
2321	1	.8	2421	2	1.3	3711	1	1.5	OGDEN			Total	2	11.7
2611	1	.6	2511	1	.5	3721	2	25.5	2611	1	.6	△PETERSBURG-HOPEWELL		
2621	1	.6	2611	1	.9	3729	1	.7	2663	1	1.0	2111	1	2.2
3292	1	.6	2654	1	.5	Total	17	47.3	3722	1	1.6	2611	1	1.0
Total	5	3.4	2711	1	.6	PROVO-OREM			Total	3	3.4	2618	2	2.2
COLUMBIA			2634	1	1.0	3312	3	4.9	WASHINGTON			2619	1	2.2
2211	2	2.6	3011	1	3.8	3331	1	.6	SEATTLE			3551	1	1.3
Total	2	2.6	3522	1	2.5	3332	1	.7	2041	1	.5	Total	6	5.6
GREENVILLE			3564	1	.5	Total	6	4.1	2421	3	2.3	WASHO		
2211	6	7.0	3715	1	.5	FORT WORTH			2711	1	.6	2432	1	.6
2221	6	5.9	Total	14	14.7	2011	1	.8	2911	1	.8	2611	1	1.7
2231	1	.8	NASHVILLE			2051	1	.8	3331	1	7.5	2711	2	1.3
2251	2	2.2	2211	1	1.3	2329	1	.7	3531	1	.8	3312	1	3.2
2321	1	.6	2252	1	.8	2611	1	.8	Total	5	10.3	3711	1	1.1
2331	1	.8	2329	1	.5	2711	1	.7	VIRGINIA			3721	3	55.1
2342	1	1.3	2711	1	.8	2851	1	.8	LYNCHBURG			3731	2	3.2
3564	1	.6	2741	2	2.2	3411	1	.8	2141	1	.8	Total	15	69.0
Total	19	19.0	2821	1	2.5	3711	1	1.9	2211	1	.9	SPOKANE		
△SPARTANBURG			2861	1	3.1	3721	2	29.9	2221	1	.7	2011	1	.6
2211	14	11.8	3141	1	11.0	Total	9	34.4	2252	1	.7	3334	1	2.7
2221	2	2.6	3231	1	1.8	GALVESTON			2328	2	1.2	3352	1	3.3
2261	1	2.7	3729	1	2.8	2815	1	2.8	3141	4	4.6	Total	3	6.6
2271	1	.9	Total	12	28.1	2821	1	1.8	3321	2	1.7	TACOMA		
2321	1	.5	△BRISTOL-JOHNSON CITY-KINGSFORD			2911	2	3.6	3569	1	.9	2432	1	.5
2335	1	.5	2211	1	1.0	3339	1	.7	3662	1	1.3	2611	1	.7
Total	20	19.1	2221	1	.5	3741	1	2.3	Total	15	14.8	3331	1	.9
SOUTH DAKOTA			2328	1	.5	Total	6	11.2	NEWPORT NEWS-HAMPTON			Total	3	2.1
SIOUX FALLS			2611	1	.5	HOUSTON			3731	1	14.0	△BELLINGHAM		
2011	1	3.0	2621	1	1.4	2052	1	.7	Total	1	14.0	3731	1	1.3
Total	1	3.0	2732	1	1.7	2393	1	.7	NORFOLK-PORTSMOUTH			Total	1	1.3
TENNESSEE			2824	3	9.3	2621	1	3.5	2071	1	1.5	△PASCO-KENNEWICK-RICHLAND		
CHATTANOOGA			3211	1	.8	2711	2	1.2	2711	1	.6	2619	1	9.0
2211	1	1.0	Total	10	15.7	2812	1	.5	3711	1	1.6	Total	1	9.0
2221	1	1.3	TEXAS			2818	2	3.7	Total	3	3.7	WEST VIRGINIA		
2251	1	.8	ABILENE			2622	1	.5	RICHMOND			CHARLESTON		
2252	2	1.3	3671	1	1.0	2871	1	.7	2082	1	.7	2612	1	1.7
2284	1	1.3	Total	1	1.0	2911	6	19.1	2111	3	5.6	2618	3	9.0
2296	2	4.1	BEAUMONT-PORT ARTHUR			3312	1	4.0	2121	1	.5	3211	1	1.9
2618	1	.6	2818	1	3.0	3411	2	1.4	2141	1	1.5	3221	1	1.3
3264	1	1.2	2822	1	.6	3493	1	.7	2311	1	1.0	3423	1	.5
3321	1	.5	2911	6	13.9	3496	1	.7	2362	1	.6	Total	7	13.4
3431	1	.9	3317	1	2.6	3533	4	10.9	2711	1	.8	HUNTINGTON-ASHLAND		
3443	1	4.4	3731	2	1.4	Total	25	47.3	2821	1	1.4	2121	1	.5
3494	1	.8	Total	10	21.5	SAN ANTONIO			2824	1	2.3	2335	1	.6
Total	14	18.2	CORPUS CHRISTI			2962	1	.5	3497	1	1.0	2619	1	1.1
KNOXVILLE			2912	1	.8	2711	1	.5	Total	12	15.4	2911	1	.7
2211	2	1.8	2818	1	.5	3595	1	.7	ROANOKE			3221	1	1.4
2251	1	1.0	3333	1	.7	Total	3	1.7	2221	1	.7	3312	3	5.4
2254	1	2.5	Total	3	2.0	TYLER			2253	1	.6	3322	1	.8
2311	2	2.0	DALLAS			3321	2	1.4	2335	1	1.4	3356	1	2.0
2619	2	10.4	2051	1	.5	Total	2	1.4	2511	1	.7	3671	1	2.0
2621	1	.7	2211	1	.7	WACO			2824	1	2.4			
3334	1	5.4	2641	1	.7	3011	1	1.8	3441	1	.7			
3352	1	2.2	2651	1	.7	3221	1	.8	3494	1	.6			
3621	1	2.0	2711	2	1.9	3722	1	.8	Total	7	7.1			
Total	12	29.0	3533	1	.8	Total	3	3.4						
			3559	1	.8									

△ Denotes SM potential metropolitan area

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Plant Locations in Metropolitan Areas by SIC Codes

Estimates, 1959, for Plants (500 or more employees) and Employment

SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)	SIC Code	Plants	Employment (thous.)
3711.....	1	1.0	2818.....	1	3.6	3444.....	1	1.0	△APPLETON			△MANITOWOC-TWO RIVERS		
Total.....	13	16.4	3351.....	1	1.4	3481.....	1	.6	2623.....	1	.5	2831.....	1	1.8
WHEELING			3423.....	1	.8	3494.....	1	.8	2621.....	1	1.5	3481.....	2	3.6
2131.....	1	.7	3661.....	1	.8	3511.....	1	1.0	2649.....	1	.5	3531.....	1	.9
2512.....	1	.8	3711.....	1	11.5	3519.....	4	6.2	Total.....	3	2.5	3731.....	1	1.3
3229.....	2	1.4	3722.....	1	.8	3822.....	2	5.7				Total.....	5	7.4
3312.....	2	2.8	Total.....	7	18.9	3831.....	6	30.0	△BELOIT-JANESVILLE			△OSHKOSH		
3323.....	1	1.3	MADISON			3835.....	1	1.5	3141.....	1	1.1	2431.....	2	1.1
3444.....	1	5.5	2011.....	1	4.0	3844.....	1	1.3	3553.....	1	.8	2621.....	1	.5
3481.....	1	.5	3361.....	1	.5	3851.....	1	1.1	3554.....	1	2.4	2641.....	1	6.4
3499.....	1	.7	3541.....	1	1.2	3861.....	1	.8	3621.....	1	.5	2649.....	2	6.5
3941.....	1	1.5	3682.....	1	1.2	3946.....	2	2.5	3711.....	2	4.8	2732.....	1	.8
Total.....	11	14.7	3842.....	1	.6	3586.....	1	.5	3714.....	1	.8	3714.....	1	1.0
△CLARKSBURG			Total.....	5	7.5	3612.....	1	1.0	3791.....	1	1.0	Total.....	8	16.3
3211.....	1	1.1	MILWAUKEE			3621.....	2	2.3	3951.....	1	1.5	△SHEBOYGAN		
3229.....	1	1.5	2011.....	1	1.6	3622.....	5	13.2	Total.....	10	15.0	2511.....	1	.5
3624.....	1	.9	2026.....	1	.7	3639.....	2	2.7	△EAU CLAIRE			3111.....	1	.6
Total.....	3	3.5	2033.....	1	1.0	3693.....	1	1.6	2621.....	1	.6	3431.....	1	3.2
△PARKERSBURG			2061.....	1	.8	3711.....	1	10.4	3611.....	1	3.1	3481.....	1	1.0
2818.....	1	.7	2082.....	4	6.7	3714.....	1	2.6	2361.....	1	1.2	Total.....	4	5.3
2824.....	1	2.0	2253.....	1	.5	3751.....	1	1.2	Total.....	3	4.9	△WAUSAU		
3229.....	1	.7	2339.....	1	.8	3811.....	1	4.0	△FOND DU LAC			2621.....	1	.5
3423.....	1	.9	2371.....	1	.5	3821.....	3	7.6	3519.....	1	.8	2649.....	1	.5
Total.....	4	5.1	2649.....	1	2.0	Total.....	82	154.8	3541.....	1	.7	3621.....	1	.6
WISCONSIN			2651.....	2	1.1	RACINE			3633.....	1	1.1	Total.....	3	1.6
GREEN BAY			2711.....	2	1.3	2731.....	1	1.0	△LA CROSSE			WYOMING		
2649.....	2	2.0	2751.....	1	.5	2942.....	1	.9	3621.....	1	.8	△CASPER		
3531.....	1	1.2	2801.....	1	.7	3322.....	1	.8	3481.....	1	.5	2911.....	1	.7
Total.....	3	3.2	2911.....	1	.6	3323.....	1	.8	3522.....	1	1.3	Total.....	1	.7
KENOSHA			2962.....	2	1.9	3433.....	1	.7	3585.....	1	2.7			
2254.....	1	.7	3111.....	1	.8	3621.....	1	.5	Total.....	4	5.3			
△9443	3	2.5	3141.....	4	4.4	3631.....	1	.6						
			3317.....	2	9.5	3679.....	1	.5						
			3321.....	2	2.1	3714.....	1	.5						
			3381.....	1	5.6	Total.....	13	12.2						
			3411.....	2	1.7									
			3429.....	1	.8									
			3433.....	1	.6									
			Total.....	3	2.5									

△ Denotes SM potential metropolitan area

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Industry on the Move

(Continued from page 86)

At that time we will also be able to calculate the ratio of shipments per employee on the new code. This will make it possible to convert the employment totals shown here (and in the directory) into shipments. For example, let us assume that in industry 2011 (old code basis) the ratio of shipments to employment is \$58,900 per employee. We may infer that within meat packing, plants must have shipments per worker ratios close to this norm, otherwise plants with ratios far below the national average could not expect to survive. This can be tested by reference to the 1958 Census returns.

Multiplying the employment in meat packing by the \$58,900 ratio, we get a series of estimated shipments which does not differ radically from the actual shipments reported by regions by the Census Bureau. Here, for example, is a comparison for the New England, Middle Atlantic, East North Central and West North Central states.

Meat Packing—2011 (old code)

	Employment (th.)	Shipments Est.	Actual
N.E.	2.5	147	139
M.A.	18.5	1090	1102
E.N.C.	49.2	2897	2867
W.N.C.	71.4	4205	4344

Thus we can see that within any particular 4-digit industry the actual ratios do tend to fluctuate rather close to the national average. From industry to industry, however, the productivity ratios vary greatly—from averages well below \$10,000 per worker in the apparel industries, in which labor constitutes the major cost item, to averages of the order of \$100,000 per worker in industries like petroleum refining, where high fixed capital costs are dominant.

How can the industrial sales manager use this material for setting quotas? By translating the metropolitan area employment into shipments he will discover in each area, how

many plants there are in the industries he hopes to sell and their total estimated shipments, and he will be able to translate his findings into a sales quota for his product.

Reference to the SM directory will reveal the actual plant identities and the street addresses to which his salesmen can be directed. This of course will not generally constitute his full quota for the area since the data in this issue do not encompass the smaller plants. Even so, it should indicate half of his quota—the more easily sold half by virtue of its concentration in the smallest number of plants.

Degree of Change in 450 Industries

The information in the following tables is of particular value to the long-range planner. He can get a quick check on the relative progress of each of the 450 4-digit industries.

The percent of change relates the 1947 Census figures to the 1960 estimates. The 1947 figures are not shown because the degree of change over the 13-year period is the significant statistic. Since the figures for 1960 and 1958 are identified by the old SIC code numbers in effect in 1947, the data can be directly compared.

Estimates of 1960 employee and value-of-shipments totals were obtained by Peter B. B. Andrews, who surveyed the 314-man panel comprising the Board of Analysts whose Future Sales Ratings appear in Sales Management.

The term "Value of Products Shipped" represents net selling value, f.o.b. plant, after discounts and allowances, of all shipments of products from manufacturing establishments of an industry, plus receipts for miscellaneous activities of such plants; it excludes freight charges and excise taxes.

Products transferred to other establishments of the same company (such as other manufacturing plants, separate sales branches, or retail dealers) are valued at the nearest approximation to the commercial selling value, f.o.b. plant, and not the cost of production.

It should be noted, therefore, that for establishments classified in a given industry the value of shipments includes not only (a) their value of products primary to the industry but also (b) their value of secondary products (which are primary to other industries), and (c) their miscellaneous receipts for repair work, sales of scrap, installation of own products, receipts for contract work, etc. Excluded from the value of shipments, however, are sales of products bought and resold in the same condition.

Out of 450 Industries

These Industries Showed Greatest Gains in Employment and Shipments for 1947-1960

EMPLOYMENT

SIC Code	Industry	% Employment Gain	Rank
3729	Aircraft equipment, n.e.c.	884	1
2951	Paving mixtures and blocks	309	2
3662	Electronic tubes	306	3
3811	Scientific instruments	293	4
2694	Pulp goods, pressed and molded	182	5
2339	Women's outerwear, n.e.c.	178	6
2015	Poultry dressing plants	159	7
2732	Book printing	158	8
3716	Automobile trailers	151	9
3594	Industrial patterns and molds	143	10
3613	Electric measuring instruments	141	11
3722	Aircraft engines	139	12
3971	Plastic products, n.e.c.	132	13
3442	Metal doors, sash and trim	128	14
2819	Inorganic chemicals, n.e.c.	121	15
2391	Curtains and draperies	118	16
3721	Aircraft	111	17
3281	Cut-stone and stone products	109	18
3661	Radios and related products	104	19
3571	Computing and related machines	102	20
2823	Plastic materials	102	20

VALUE PRODUCTS SHIPPED

SIC Code	Industry	% Value of Shipments Gain	Rank
3729	Aircraft equipment, n.e.c.	1938	1
3662	Electronic tubes	1025	2
3811	Scientific instruments	909	3
3511	Steam engines and turbines	605	4
3497	Metal foil	491	5
3722	Aircraft engines	475	6
2823	Plastic materials	472	7
3932	Organs	458	8
2694	Pulp goods, pressed and molded	456	9
2216	Finishing wool textiles	455	10
3334	Primary aluminum	432	11
2819	Inorganic chemicals, n.e.c.	419	12
2951	Paving mixtures and blocks	409	13
2339	Women's outerwear, n.e.c.	392	14
3613	Electrical measuring instruments	386	15
2897	Insecticides and fungicides	373	16
2037	Frozen fruits and vegetables	367	17
2322	Men's and boys' underwear	366	18
3971	Plastic products, n.e.c.	361	19
3571	Computing and related machines	357	20

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Food & Kindred Products—SIC 20

SM Estimates, 1960, of Employment and Value of Products Shipped

SIC Code No.	INDUSTRY TITLE	EMPLOYMENT (in thousands)			VALUE PRODUCTS SHIPPED (\$ millions)		
		1958	1960	% Gain 1947-1960	1958	1960	% Gain 1947-1960
20	FOOD AND KINDRED PRODUCTS						
201	<i>Meat Products</i>						
2011	Meat packing, wholesale	203.9	201.5	- 3	12,012	13,489	+ 50
2013	Prepared meats	48.4	48.1	+ 8	1,991	2,194	+ 37
2015	Poultry dressing plants	56.2	55.9	+159	1,713	1,920	+300
202	<i>Dairy Products</i>						
2021	Creamery butter	17.5	17.5	- 15	1,026	1,055	+ 25
2022	Natural cheese	15.3	15.1	+ 23	756	787	+ 66
2023	Concentrated milk	12.3	12.1	- 27	774	788	+ 4
2024	Ice cream and ices	35.1	36.2	+ 1	966	1,062	+ 72
2025	Special dairy products	5.9	5.9	- 29	275	279	- 4
2027	Fluid milk	206.5	213.2	-	6,213	6,504	-
203	<i>Canned and Frozen Foods</i>						
2031	Canned sea food	12.6	12.6	- 38	271	290	+ 23
2032	Cured fish	2.0	2.0	- 17	53	55	+ 77
2033	Canned fruits and vegetables	123.4	127.2	- 6	3,803	3,219	+ 96
2035	Pickles and sauces	22.7	23.3	+ 9	642	703	+ 96
2036	Packaged sea food	17.7	17.5	-	307	301	-
2037	Frozen fruits and vegetables	26.3	26.2	+ 62	690	724	+367
204	<i>Grain Mill Products</i>						
2041	Flour and meal	28.3	27.6	- 30	2,094	2,062	- 19
2042	Prepared animal feeds	57.0	56.1	0	324	319	- 65
2043	Cereal breakfast foods	11.0	10.8	- 4	444	460	+ 74
2044	Rice milling	3.9	3.9	- 5	325	331	+ 47
2045	Flour mixes	4.7	4.7	+ 32	273	290	+279
205	<i>Bakery Products</i>						
2051	Bread and related products	296.2	287.2	+ 15	4,096	4,253	+ 89
2052	Biscuit and crackers	42.8	44.9	- 3	962	1,010	+ 79
206	<i>Sugar</i>						
2061	Raw cane sugar	3.0	2.8	- 44	72	75	+ 29
2062	Cane-sugar refining	18.2	12.9	- 26	997	1,040	+ 27
2063	Beet sugar	10.3	9.4	- 30	392	423	+ 61
207	<i>Candy and Related Products</i>						
2071	Confectionery products	65.7	60.9	- 19	1,217	1,291	+ 32
2072	Chocolate and cocoa products	8.3	7.6	- 21	448	454	+ 30
2073	Chewing gum	5.3	4.8	- 30	176	182	+ 23
208	<i>Beverages</i>						
2081	Bottled soft drinks	95.7	103.5	+ 30	1,492	1,664	+122
2082	Malt liquors	71.5	74.4	- 10	1,963	2,061	+ 86
2083	Malt	2.4	2.5	0	196	205	- 20
2084	Wines and brandy	9.9	8.3	- 18	-	-	-
2085	Distilled liquor	20.4	21.0	- 28	942	1,004	+ 18
209	<i>Miscellaneous Foods</i>						
2092	Shortening and cooking oils	9.6	9.5	+ 19	1,604	985	+ 11
2093	Margarine	2.7	2.7	+ 4	219	224	+ 4
2094	Corn wet milling	13.8	14.0	+ 14	529	539	+ 17
2095	Flavorings	9.4	9.5	- 19	513	531	+ 69
2097	Manufactured ice	15.0	14.2	- 70	156	148	- 46
2098	Macaroni and spaghetti	6.8	6.9	- 14	180	189	+ 69
2099	Food preparations, n. e. c.	66.6	66.0	+ 49	5,862	4,240	+165

Tobacco Products—SIC 21

21	TOBACCO PRODUCTS						
2111	Cigarettes	33.8	36.8	+ 29	2,160	2,325	+105
2121	Cigars	29.4	31.3	- 34	361	463	+ 30
2131	Chewing and smoking tobaccos	6.2	6.2	- 44	174	177	+ 28
2141	Tobacco stemming and redrying	15.1	15.6	- 40	1,179	1,236	+ 28

Textile Mill Products—SIC 22

22	TEXTILE MILL PRODUCTS						
221	<i>Woolen and Worsted Manufactures</i>						
2211	Scouring and combing plants	6.1	6.4	- 24	89	102	+ 34
2212	Yarn mills, wool, except carpet	15.5	16.2	- 51	256	288	- 15
2213	Woolen and worsted fabrics	50.0	52.3	- 61	790	875	- 35
2216	Finishing wool textiles	5.0	5.2	- 10	144	161	+485
222	<i>Yarn and Thread Mills</i>						
2222	Yarn and throwing mills	8.8	8.7	- 42	120	127	+ 98
2223	Thread mills	11.1	10.9	- 26	167	180	+ 17
2224	Yarn mills, cotton system	7.6	7.5	- 38	1,156	1,172	+ 1
223	<i>Broad Woven Fabrics</i>						
2233	Cotton broad-woven fabrics	242.5	240.4	- 27	2,794	3,120	+ 7
2234	Synthetic broad-woven fabrics	82.0	79.1	- 19	1,239	1,383	+ 39
2241	Narrow fabric mills	24.5	26.3	- 6	299	346	+ 61
225	<i>Knitting Mills</i>						
2251	Full-fashioned hosiery mills	33.8	36.2	- 48	-	-	-
2252	Seamless hosiery mills	70.0	74.8	+ 15	603	661	+102
2253	Knit outerwear mills	60.8	64.7	+ 88	824	925	+108
2254	Knit underwear mills	27.7	29.8	- 27	291	327	+ 11
226	<i>Knit fabric mills</i>						
2261	Finishing textiles, except wool	18.4	19.5	+ 44	491	553	+181
227	<i>Carpets and Rugs</i>						
2271	Wool carpets and rugs	25.1	24.0	- 40	-	-	-
2273	Carpets and rugs, except wool	13.7	14.2	+100	311	345	+816
2274	Hard-surfaced floor covering	8.1	8.4	- 15	182	219	+ 27
228	<i>Hats, Except Cloth and Millinery</i>						
2281	Fur-felt hats and hat bodies	6.3	6.2	- 82	68	72	- 45
2282	Wool-felt hats and hat bodies	1.8	1.8	- 89	14	16	- 39
2283	Straw hats	2.1	2.0	- 17	20	20	+ 11
2284	Hatter's fur	0.6	0.6	- 60	8	8	- 67
229	<i>Miscellaneous Textile Goods</i>						
2291	Felt goods, n. e. c.	4.6	4.8	+ 2	98	112	+ 87
2292	Lace goods	6.8	7.1	- 18	64	71	+ 3
2293	Padding and upholstery filling	7.1	7.5	- 10	140	186	+ 42
2294	Processed textile waste	4.6	4.9	- 18	93	111	+ 98
2295	Coated fabrics, except rubberized	10.5	11.1	+ 29	293	294	+ 74
2296	Cordage and twine	9.6	10.1	- 36	141	187	- 8

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Apparel & Related Products—SIC 23

Estimates, 1960, of Employment and Value of Products Shipped

SIC Code No.	INDUSTRY TITLE	EMPLOYMENT (in thousands)			VALUE PRODUCTS SHIPPED (\$ millions)		
		1958	1960	% Gain 1947-1960	1958	1960	% Gain 1947-1960
23	APPAREL AND RELATED PRODUCTS						
231	Men's and Boys' Suits and Coats	121.2	127.1	+ 14	1,274	1,480	+ 6
2311	Men's and boys' suits and coats						
232	Men's and Boys' Furnishings						
2321	Men's dress shirts and nightwear	103.6	116.9	+ 24	986	1,128	+157
2322	Men's and boys' underwear	12.2	13.8	+ 08	116	135	+386
2323	Men's and boys' neckwear	7.7	8.7	+ 19	102	116	+ 84
2325	Men's and boys' cloth hats	7.9	9.8	+ 00	89	78	+341
2327	Separate trousers	51.2	53.5	+ 13	441	503	+170
2328	Work shirts	6.3	9.6	+ 48	51	69	+ 6
2329	Men's and boys' clothing, n. e. c.	91.3	96.4	+ 28	1,304	1,194	+294
233	Women's and Misses' Outerwear						
2331	Blouses	46.4	47.2	+ 44	430	482	+ 74
2333	Dresses, unit price	133.8	134.4	0	1,629	1,630	+ 36
2334	Dresses, dozen price	56.9	57.7	+ 19	507	567	+ 63
2337	Women's suits, coats, and skirts	83.0	84.1	+ 17	1,223	1,378	+ 29
2339	Women's outerwear, n. e. c.	34.3	34.6	+178	428	477	+392
234	Women's Undergarments						
2341	Women's and children's underwear	73.0	78.1	+ 30	819	920	+ 60
2342	Corsets and allied garments	38.3	39.2	+ 7	471	528	+ 90
2343	Millinery	17.9	14.9	- 29	191	214	+ 20
235	Children's Outerwear						
2351	Children's dresses	34.8	35.4	+ 57	330	366	+109
2353	Children's coats	12.2	12.5	+ 14	162	183	+ 61
236	Miscellaneous Apparel						
2364	Robes and dressing gowns	11.6	12.3	+ 13	135	152	+ 43
2365	Waterproof outer garments	13.4	14.1	+ 64	149	168	+107
2366	Leather and sheep-lined clothing	4.8	4.8	+ 14	65	74	+ 81
2367	Belts	10.7	11.2	+ 22	100	114	+ 65
237	Fabricated Textiles, n. e. c.						
2371	Curtains and draperies	16.2	17.4	+119	214	244	+122
2372	Housefurnishings, n. e. c.	37.9	40.7	+ 2	628	703	+ 40
2373	Textile bags	9.0	9.6	- 31	202	228	+ 36
2374	Canvas products	9.9	11.5	+ 9	131	149	+ 64
2375	Tucking, pleating, and stitching	5.0	5.4	- 9	31	35	+ 40
2376	Trimmings and art goods	16.5	17.7	+ 22	290	322	+152
2377	Schiffli-machine embroideries	8.0	8.2	+ 9	76	87	+ 35
2378	Embroideries, except Schiffli	7.8	8.1	- 17	57	63	+ 43
2379	Textile products, n. e. c.	10.1	10.8	+ 8	243	269	+ 42

Lumber & Wood Products—SIC 24

24	LUMBER, WOOD PRODUCTS EXC. FURNITURE						
2411	Logging Camps and Contractors						
2412	Lumber and Basic Products						
2421	Sawmills and planing mills	273.5	282.3	+ 26	3,208	3,847	+ 41
2422	Veneer mills	13.0	13.4	+ 28	170	169	+162
2423	Shingle mills	2.7	2.8	+ 17	41	46	+ 77
2424	Cooperage stocks mills	2.9	3.0	- 76	32	36	- 35
2425	Excelsior mills	1.2	1.2	0	13	15	+114
243	Millwork and Related Products						
2431	Millwork plants	61.3	63.7	+ 7	1,039	1,119	+108
2432	Plywood plants	47.1	49.0	+ 78	728	794	+182
2433	Prefabricated wood products	13.5	14.1	+ 40	322	361	+241
244	Wooden Containers						
2441	Fruit and vegetable baskets	5.2	5.1	- 44	29	31	0
2444	Wooden boxes	28.9	28.2	- 41	311	339	- 7
2445	Cooperage	3.9	3.8	- 99	70	76	- 28
249	Miscellaneous Wood Products						
2491	Wood preserving	10.9	11.8	- 27	263	217	*

Furniture & Fixtures—SIC 25

25	FURNITURE AND FIXTURES						
251	Household Furniture						
2511	Wood furniture, not upholstered	126.1	130.3	+ 3	1,389	1,710	+ 90
2512	House furniture, upholstered	67.7	72.6	+ 62	874	1,042	+174
2514	Metal house furniture	30.5	33.1	+ 68	499	594	+ 31
2515	Mattresses and bedding	25.4	27.3	- 10	470	565	+ 71
252	Office Furniture						
2521	Wood office furniture	5.8	6.3	- 3	69	87	+ 85
2522	Metal office furniture	17.5	20.5	+ 43	277	345	+174
253	Public and Professional Furniture						
2531	Public-building furniture	15.8	17.7	+ 74	206	253	+233
2532	Professional furniture	7.4	8.3	+ 60	104	122	+190
2541	Partitions and fixtures	38.0	40.5	+ 46	550	678	+178
255	Screens, Shades, and Blinds						
2551	Window and door screens	4.6	5.0	+ 19	85	97	+149
2552	Window shades	4.7	4.7	- 11	92	106	+ 84
2553	Venetian blinds	6.5	7.1	- 27	94	107	+ 27

Paper & Allied Products—SIC 26

26	PAPER AND ALLIED PRODUCTS						
261	Pulp, Paper and Board						
2612	Paper and paper board mills	188.5	195.2	+ 47	4,960	5,539	+112
2613	Building paper and board mills	20.0	20.1	387	408		
2641	Paper coating and glazing	24.1	24.8	+ 11	708	891	+150
2651	Envelopes	17.5	18.1	+ 31	270	307	+140
2661	Paper bags	38.5	40.3	+ 81	891	1,039	+225
267	Paperboard Containers						
2671	Paperboard boxes	141.0	143.3	+ 31	2,729	3,067	+108
2674	Fiber cans, tubes, drums, etc.	10.6	10.8	+ 17	161	182	+146
269	Pulp, Paper & Board Products, n. e. c.						
2691	Die-cut paper and board	11.8	12.5	+ 34	247	279	+185
2693	Wall paper	2.8	2.8	- 49	41	44	- 28
2694	Pulp goods, pressed and molded	4.5	4.8	+182	79	89	+456
2699	Paper and board products, n. e. c.	90.9	97.7	+ 41	1,974	2,216	+182

† Combined growth of 2612 and 2613, a single industry in 1947

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Printing & Publishing—SIC 27

SM Estimates, 1960, of Employment and Value of Products Shipped

SIC Code No.	INDUSTRY TITLE	EMPLOYMENT (in thousands)			VALUE PRODUCTS SHIPPED (\$ millions)		
		1958	1960	% Gain 1947-1960	1958	1960	% Gain 1947-1960
27	PRINTING, PUBLISHING, ALLIED INDUSTRIES						
2711	Newspapers.....	296.0	310.7	+ 33	3,848	4,093	+114
2721	Periodicals.....	65.9	66.9	- 3	1,661	1,671	+ 77
2731	Books.....						
2731	Books: publishing & printing.....	40.1	45.2	+ 13	1,023	1,204	+160
2732	Book printing.....	27.9	30.9	+100	390	413	+349
2741	Miscellaneous printing.....	19.8	23.1	+ 93	314	360	+250
2751	Commercial printing.....	199.3	206.8	+ 8	2,723	2,999	+ 98
2761	Lithographing.....	96.0	104.6	+ 99	1,473	1,632	+234
2771	Greeting cards.....	21.5	24.7	+ 37	289	339	+173
2781	Bookbinding and Related Industries						
2781	Bookbinding.....	17.9	19.4	- 13	143	167	+ 44
2782	Blankbooks and paper ruling.....	10.8	11.7	+ 33	136	150	+163
2783	Loose-leaf binders and devices.....	9.2	10.1	+ 25	112	130	+124
2789	Miscellaneous bookbinding work.....	4.0	4.3	+ 26	39	46	+ 27
2791	Printing Trades Services						
2791	Typesetting.....	18.0	17.9	+ 90	177	185	+143
2792	Engraving and plate printing.....	9.0	9.1	+ 18	87	94	+109
2793	Photoengraving.....	17.2	17.4	+ 4	209	232	+ 71
2794	Electrotyping and stereotyping.....	6.6	6.6	- 6	81	89	+ 53

Chemicals & Allied Products—SIC 28

SIC Code No.	INDUSTRY TITLE	EMPLOYMENT (in thousands)			VALUE PRODUCTS SHIPPED (\$ millions)		
		1958	1960	% Gain 1947-1960	1958	1960	% Gain 1947-1960
28	CHEMICALS, ALLIED PRODUCTS						
281	Inorganic Chemicals						
2812	Alkalies and chlorine.....	20.5	20.9	+ 5	604	575	+176
2819	Inorganic chemicals, n. e. c.....	85.1	87.3	+121	2,967	2,924	+419
282	Organic Chemicals						
2821	Cyclic (coal-tar) crudes.....	2.1	2.3	+ 15	116	155	+154
2822	Intermediate coal-tar products.....	28.0	28.0	- 17	809	1,060	+126
2823	Plastic materials.....	61.5	67.9	+102	1,849	2,733	+472
2824	Synthetic rubber.....	9.3	10.8	+ 40	636	774	+229
2825	Synthetic fibers.....	61.5	64.6	- 7	1,421	1,816	+156
2826	Explosives.....	15.0	16.2	+ 96	228	279	+106
2829	Organic chemicals, n. e. c.....	79.0	87.0	+ 60	3,198	4,166	+328
283	Drugs and Medicines						
2831	Biological products.....	3.7	3.8	+ 27	84	76	+100
2833	Medicinal chemicals.....	10.2	11.3	- 14	321	372	+ 71
2834	Pharmaceutical preparations.....	61.7	69.9	+ 38	2,557	3,004	+219
284	Soap and Related Products						
2841	Soap and glycerin.....	20.7	21.4	- 22	1,211	1,390	+ 16
2842	Cleaning and polishing products.....	21.5	22.6	+ 48	840	890	+237
2843	Sulfonated oils and assistants.....	1.8	1.7	- 15	62	66	+ 25
285	Paints and Allied Products						
2851	Paints and varnishes.....	66.9	60.2	+ 13	1,809	2,018	+ 62
286	Inorganic color pigments.....	11.5	12.3	- 14	421	470	+ 64
2863	Whiting and fillers.....	1.4	1.5	+ 18	36	39	+106
286	Gum and Wood Chemicals						
2861	Hardwood distillation.....	1.8	1.9	0	21	23	+ 64
2862	Softwood distillation.....	3.9	4.0	- 13	107	116	+ 82
2863	Gum naval stores.....	.4	.4	- 33	26	28	- 26
287	Fertilizers						
2871	Fertilizers.....	31.0	32.2	+ 1	1,066	1,296	+157
2872	Fertilizers, mixing only.....						
288	Vegetable and Animal Oils						
2881	Cottonseed oil mills.....	8.3	7.6	- 47	420	407	- 21
2882	Linseed oil mills.....	1.1	1.1	- 31	110	112	- 42
2883	Soybean oil mills.....	8.0	8.7	+ 34	1,078	1,189	+100
2886	Grease and tallow.....	12.0	12.3	- 1	326	380	+ 28
2887	Fatty acids.....	1.6	1.6	+ 23	67	68	+ 2
289	Chemical Products, n. e. c.						
2891	Printing ink.....	6.0	6.9	+ 48	223	281	+142
2893	Toilet preparations.....	29.4	30.1	+ 11	1,046	1,095	+187
2894	Glue and gelatin.....	6.9	7.0	- 11	194	203	+ 40
2895	Carbon black.....	3.3	3.4	+ 6	122	134	+ 61
2896	Compressed and liquified gases.....	10.4	11.5	+ 26	276	309	+232
2897	Insecticide and fungicides.....	6.4	7.0	+ 71	271	317	+373
2899	Chemical products, n. e. c.....	25.1	28.0	+ 80	903	994	+213

† Combined figures for 2871 and 2872, a single industry in 1958

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To All Industrial Sales Managers

See pages 94, 95

for the announcement and discussion of
SALES MANAGEMENT'S revolutionary new
DIRECTORY OF KEY PLANTS

Petroleum & Coal Products—SIC 29

Estimates, 1960, of Employment and Value of Products Shipped

SIC Code No.	INDUSTRY TITLE	EMPLOYMENT (in thousands)			VALUE PRODUCTS SHIPPED (\$ millions)		
		1958	1960	% Gain 1947- 1960	1958	1960	% Gain 1947- 1960
29	PETROLEUM & COAL PRODUCTS						
2911	Petroleum refining	146.1	150.0	+ 3	14,535	15,800	+138
295	Paving and Roofing Materials						
2951	Paving mixtures and blocks	7.8	11.5	+309	294	280	+409
2952	Roofing felts and coatings	15.5	15.8	- 4	463	425	+ 26
299	Petroleum & Coal Products, n. e. c.						
2992	Lubricants, n. e. c.	7.5	7.8	- 2	279	238	+ 16

Rubber Products—SIC 30

30	RUBBER PRODUCTS						
3011	Tires and inner tubes	87.2	105.3	+ 9	2,520	4,650	+201
3021	Rubber footwear	20.4	22.9	+ 10	229	231	+ 18
3031	Reclaimed rubber	2.0	2.0	- 4	39	41	+142
3099	Rubber industries, n. e. c.	122.3	124.7	+ 11	1,954	2,150	+126

Leather & Leather Products—SIC 31

31	LEATHER AND LEATHER PRODUCTS						
3111	Leather tanning and finishing	37.1	35.4	- 34	742	784	- 27
3121	Industrial leather belting	4.0	4.3	- 14	66	78	+ 37
3131	Footwear cut stock	17.9	18.4	- 17	256	289	- 9
314	Footwear, Except Rubber						
3141	Footwear, except rubber	214.7	219.6	- 5	2,042	2,192	+ 27
3142	House slippers	11.3	11.5	+ 22	110	119	+ 78
315	Leather Goods						
3151	Leather dress gloves	4.1	3.6	+ 80	34	31	- 34
3152	Leather work gloves	2.2	2.0	- 28	19	20	+ 10
3151	Luggage	15.7	16.4	+ 3	185	204	+ 93
317	Purses and Small Leather Goods						
3171	Handbags and purses	22.1	22.5	+ 10	234	252	+ 65
3172	Small leather goods	7.5	7.8	+ 39	78	89	+ 34

Stone, Clay & Glass Products—SIC 32

32	STONE, CLAY AND GLASS PRODUCTS						
3211	Flat glass	21.2	23.4	- 8	395	487	+117
322	Pressed and Blown Glassware						
3221	Glass containers	54.9	58.6	+ 24	882	940	+122
3229	Pressed and blown glass, n. e. c.	36.8	40.2	- 5	449	493	+110
3231	Products of purchased glass	22.2	23.7	- 1	442	480	+123
3241	Cement, hydraulic	41.1	42.3	+ 19	1,073	1,116	+173
325	Structural Clay Products						
3251	Brick and hollow tile	31.3	32.6	+ 10	289	309	+113
3253	Floor and wall tile	12.5	12.9	+ 87	130	146	+261
3254	Sewer pipe	10.0	10.5	+ 15	97	109	+127
3255	Clay refractories	12.3	12.8	- 29	182	213	+ 95
326	Pottery and Related Products						
3261	Vitreous plumbing fixtures	8.7	10.7	+ 37	143	161	+133
3262	Vitreous-china food utensils	8.0	8.9	- 20	52	58	+ 38
3263	Earthenware, food utensils	0.6	0.9	- 43	49	54	- 25
3264	Porcelain electrical supplies	0.1	0.7	- 18	96	115	+ 82
327	Concrete and Plaster Products						
3271	Concrete products	70.1	77.2	+ 85	1,153	1,330	+303
3272	Gypsum products	11.4	12.4	+ 65	362	416	+225
3274	Lime	7.2	7.9	+ 13	131	149	+104
3275	Mineral wool	11.9	13.0	+ 46	239	270	+270
3281	Cut-stone and stone products	20.6	20.7	+109	286	236	+247
329	Non-metallic Mineral Products, n. e. c.						
3291	Abrasive products	24.0	26.2	+ 25	492	589	+153
3292	Asbestos products	21.3	23.2	+ 7	464	515	+181
3293	Gaskets and asbestos insulations	13.4	14.8	+ 12	180	214	+ 78
3295	Minerals: ground or treated	7.3	8.0	- 11	187	219	+133
3297	Nonclay refractories	8.5	9.3	- 10	195	223	+140
3299	Non-metallic mineral prod., n. e. c.	3.5	3.8	+ 46	61	70	+169

Primary Metals—SIC 33

33	PRIMARY METALS						
331	Blast Furnaces and Steel Mills						
3312	Blast furnaces and steel mills	512.8	543.7	+ 1			
3313	Electrometallurgical products	11.6	12.9	+ 34	370	439	+191
332	Iron and Steel Foundries						
3321	Gray-iron foundries	112.3	128.6	- 27	1,431	1,708	+ 46
3322	Malleable-iron foundries	20.0	21.8	- 27	212	249	+ 35
3323	Steel foundries	49.1	55.3	- 11	596	705	+ 75
333	Primary Non-ferrous Metals						
3331	Primary copper	14.6	15.9	+ 9			
3332	Primary lead	3.6	3.8	- 19			
3333	Primary zinc	8.9	9.3	- 25	209	226	+ 10
3334	Primary aluminum	17.4	21.3	+ 14	809	1,017	+432
3341	Secondary non-ferrous metals	14.7	16.9	- 7	716	825	+ 14
335	Non-ferrous Rolling and Drawing						
3351	Copper rolling and drawing	41.3	42.0	- 23	1,267	1,284	+ 21
3352	Aluminum rolling and drawing	42.4	46.3	+ 89	1,375	1,695	+319
3361	Non-ferrous foundries	62.6	65.9	- 1	888	979	+ 71

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Primary Metals—SIC 33 (Cont'd)

Estimates, 1960, of Employment and Value of Products Shipped

SIC Code No.	INDUSTRY TITLE	EMPLOYMENT (in thousands)			VALUE PRODUCTS SHIPPED (\$ millions)		
		1958	1960	% Gain 1947-1960	1958	1960	% Gain 1947-1960
339	Primary Metal Industries, n. e. c.						
3391	Iron and steel forgings.....	38.3	38.2	+ 4	670	767	+107
3392	Wire-drawing.....	84.2	87.7	+ 5	1,479	1,635	+ 79
3393	Welded and heavy-riveted pipe...	22.6	23.9	+ 52	891	782	+221
3399	Primary metal industries, n. e. c.	26.1	29.8	+ 35	782	884	+151

Fabricated Metals—SIC 34

34	FABRICATED METAL PRODUCTS						
3411	Tin cans and other tinware.....	54.8	58.2	+ 24	1,832	1,938	+185
3418	Cutlery, Tools, and Hardware						
3421	Cutlery.....	11.9	12.2	- 40	179	187	+ 31
3422	Edge tools.....	6.8	6.9	- 19	83	85	+ 42
3423	Hand tools, n. e. c.....	21.1	21.4	- 40	318	328	+ 22
3425	Hand saws and saw blades.....	5.5	5.5	- 35	88	94	+ 34
3429	Hardware, n. e. c.....	88.8	91.7	+ 18	1,358	1,439	+148
3438	Heating and Plumbing Equipment						
3431	Plumbing fixtures and fittings.....	28.2	28.0	- 19	478	483	+ 62
3439	Heating and cooking equip., n. e. c.	65.1	67.7	- 42	1,387	1,409	+ 13
3448	Structural Metal Products						
3441	Structural and ornamental work.....	137.2	134.2	+ 70	2,873	2,890	+235
3442	Metal doors, sash, and trim.....	54.3	53.1	+128	871	962	+313
3443	Boiler shop products.....	81.3	78.0	+ 16	1,497	1,484	+118
3444	Steel-metal work.....	80.4	88.7	+ 34	1,078	1,080	+189
3468	Metal Stamping and Coating						
3461	Vitreous-enamelled products.....	5.8	6.3	- 48	80	86	+ 25
3463	Metal stampings.....	118.7	123.8	- 7	1,996	2,268	+ 93
3471	Lighting fixtures.....	47.3	50.1	+ 7	825	875	+ 80
3488	Wirework, n. e. c.....	55.0	57.9	+ 2	967	792	+ 91
3498	Metal Products, n. e. c.						
3491	Metal barrels, drums and pails.....	9.1	10.4	- 8	243	270	+ 86
3492	Safes and vaults.....	3.5	3.8	+ 3	88	88	+124
3493	Steel springs.....	5.5	5.9	- 24	106	114	+ 23
3494	Bolts, nuts, washers and rivets.....	53.8	57.3	+ 17	888	939	+102
3495	Screw machine products.....	32.2	36.1	+ 26	433	491	+121
3496	Collapsible tubes.....	3.8	4.0	+ 3	45	48	+ 29
3497	Metal foil.....	7.7	8.5	+ 98	276	329	+491

Machinery (Except Electrical)—SIC 35

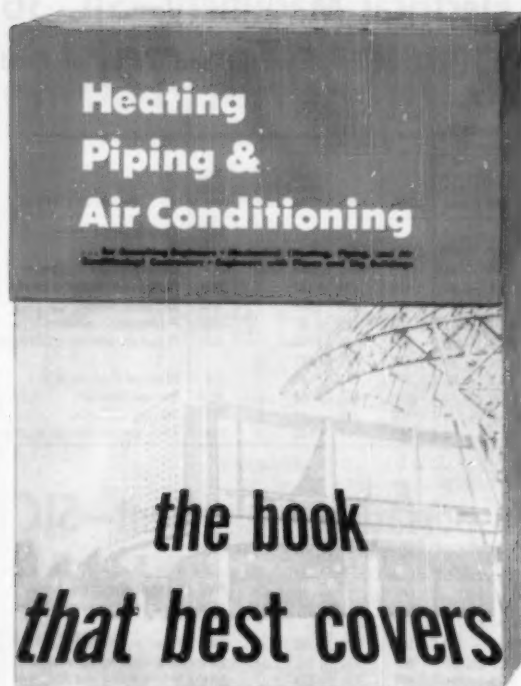
35	MACHINERY, EXCEPT ELECTRICAL						
3518	Engines and Turbines						
3511	Steam engines and turbines.....	41.2	44.6	+101	888	982	+608
3519	Internal combustion engines.....	53.4	58.8	- 18	1,188	1,194	+ 93
3528	Tractors and Farm Machinery						
3521	Tractors.....	80.3	59.6	- 23	1,838	1,490	+ 67
3522	Farm machinery (exc. tractors).....	75.6	76.4	- 19	1,521	1,896	+ 88
3538	Construction & Mining Machinery						
3531	Construction and mining mach.....	83.1	85.0	0	1,672	1,838	+ 96
3532	Oil field machinery.....	32.2	33.1	+ 13	888	609	+111
3548	Metalworking Machinery						
3541	Machine tools.....	54.2	60.2	- 14	898	914	+ 85
3542	Metalworking machinery.....	82.0	82.7	+ 14	880	1,231	+137
3544	Special dies and tool.....	70.5	85.5	- 11	900	1,289	+ 92
3545	Metalworking mach. attachments.....	40.9	50.3	- 48	806	883	+ 3
3558	Special-industry Machinery, n. e. c.						
3551	Food-products machinery.....	27.6	30.8	- 17	455	532	+ 62
3552	Textile machinery.....	34.2	38.4	- 28	375	430	+ 7
3553	Woodworking machinery.....	12.2	12.9	- 20	214	226	+ 48
3554	Paper-industries machinery.....	15.7	17.6	+ 3	309	287	+136
3555	Printing-trades machinery.....	21.5	23.7	- 5	311	352	+ 77
3559	Special-industry machinery, n. e. c.	51.0	58.9	+ 1	782	897	+ 86
3568	General Industry Machinery						
3561	Pumps and compressors.....	65.3	64.2	+ 14	1,121	1,281	+119
3562	Elevators and escalators.....	9.7	10.1	- 1	193	220	+116
3563	Conveyers.....	30.9	33.6	+ 34	574	631	+184
3564	Blowers and fans.....	18.5	18.2	+ 10	264	294	+109
3565	Industrial trucks and tractors.....	14.8	15.5	+ 12	259	308	+ 88
3566	Power-transmission equipment.....	49.8	61.8	- 4	738	841	+ 96
3567	Industrial furnaces and ovens.....	9.2	10.2	+ 62	190	219	+192
3568	Mechanical stokers.....	.7	.6	- 88	10	10	- 74
3578	Office and Store Machines						
3571	Computing and related machines.....	82.3	91.8	+162	1,117	1,317	+387
3572	Typewriters.....	19.7	20.8	- 22	238	261	+ 70
3578	Scales and balances.....	8.7	6.3	- 3	82	96	+ 75
3579	Office and store machines, n. e. c.	23.4	27.8	+ 44	280	462	+100
3588	Service and Household Machines						
3581	Domestic laundry equipment.....	24.6	25.9	- 9	744	834	+ 88
3582	Laundry and dry-cleaning mach.....	6.0	6.7	- 28	117	138	+ 44
3583	Sewing machines.....	9.6	9.8	- 38	110	124	+ 28
3584	Vacuum cleaners.....	5.8	6.6	- 86	154	181	+ 13
3585	Refrigeration machinery.....	111.6	123.2	- 4	..	..	..
3586	Measuring and dispensing pumps.....	6.2	7.1	- 41	120	149	+ 19
3598	Miscellaneous Machine Parts						
3591	Valves and fittings, exc. plbg.....	75.3	80.9	+ 1	1,245	1,362	+118
3592	Fabricated pipe and fittings.....	15.1	18.0	+ 51	328	388	+209
3593	Ball and roller bearings.....	48.4	50.2	- 4	850	731	+100
3594	Industrial patterns and molds.....	22.1	23.6	+143	283	314	+349

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Electrical Machinery—SIC 36

Estimates, 1960, of Employment and Value of Products Shipped

SIC Code No.	INDUSTRY TITLE	EMPLOYMENT (in thousands)			VALUE PRODUCTS SHIPPED (\$ millions)		
		1958	1960	% Gain 1947-1960	1958	1960	% Gain 1947-1960
36	ELECTRICAL MACHINERY						
361	Electrical Industrial Apparatus						
3611	Wiring devices and supplies	50.5	52.2	+ 43	836	941	+148
3612	Carbon and graphite products	8.9	9.0	+ 26	155	184	+187
3613	Electrical measuring instruments	44.9	50.4	+141	743	743	+380
3614	Motors and generators	93.5	104.6	- 17	1,394	1,580	+ 60
3615	Transformers	34.5	38.5	- 5	642	750	+110
3616	Electrical control apparatus	80.1	89.3	+ 32	1,375	1,627	+181
3617	Electrical welding apparatus	9.9	11.2	+ 83	248	291	+180
3621	Electrical appliances	29.7	44.9	+ 2	790	904	+ 95
3631	Insulated wire and cable	16.8	18.8	- 7	380	442	+ 52
3641	Engine electrical equipment	39.9	45.8	+ 2	382	733	+108
3681	Electric lamps (bulbs)	21.8	23.4	- 2	418	461	+127
368	Communication Equipment						
3681	Radios and related products	308.2	364.7	+104	..	..	..
3682	Electronic tubes	92.3	112.5	+306	1,188	1,406	+1029
3683	Phonograph records	7.4	8.9	- 11	149	185	+ 88
3684	Telephone and telegraph equip.	86.0	102.6	+ 35	..	..	..
369	Electrical Products, n. e. c.						
3691	Storage batteries	14.9	16.2	- 2	389	412	+ 38
3692	Primary batteries	8.1	8.8	- 15	130	160	+ 88
3693	X-ray and therapeutic apparatus	5.3	8.9	- 22	96	114	+ 80

Transportation Equipment—SIC 37

37	TRANSPORTATION EQUIPMENT						
371	Motor Vehicles and Equipment						
3713	Truck and bus bodies	19.9	24.2	- 9	386	394	+ 99
3715	Truck and trailers	15.7	17.0	+ 36	335	410	+163
3716	Automobile trailers	29.7	24.1	+181	807	601	+336
3717	Motor vehicles and parts	382.2	446.5	C	..	..	..
372	Aircraft and Parts						
3721	Aircraft	378.5	388.7	+111	8,482	5,108	..
3722	Aircraft engines	148.8	120.4	+139	3,351	2,875	+475
3723	Aircraft propellers	18.9	10.8	+ 46	236	188	..
3729	Aircraft equipment, n. e. c.	157.9	148.8	+884	2,277	2,140	+1938
373	Ships and Boats						
3731	Ship building and repairing	118.3	117.2	- 10	1,570	1,548	+ 83
3732	Boat building and repairing	24.6	27.4	+ 45	320	373	+227
374	Railroad Equipment						
3741	Locomotives and parts	18.3	18.2	- 40	406	492	+ 39
3742	Railroad and street cars	24.3	29.2	- 82	889	718	- 1
3751	Motorcycles and bicycles	7.2	8.6	- 45	118	138	- 18

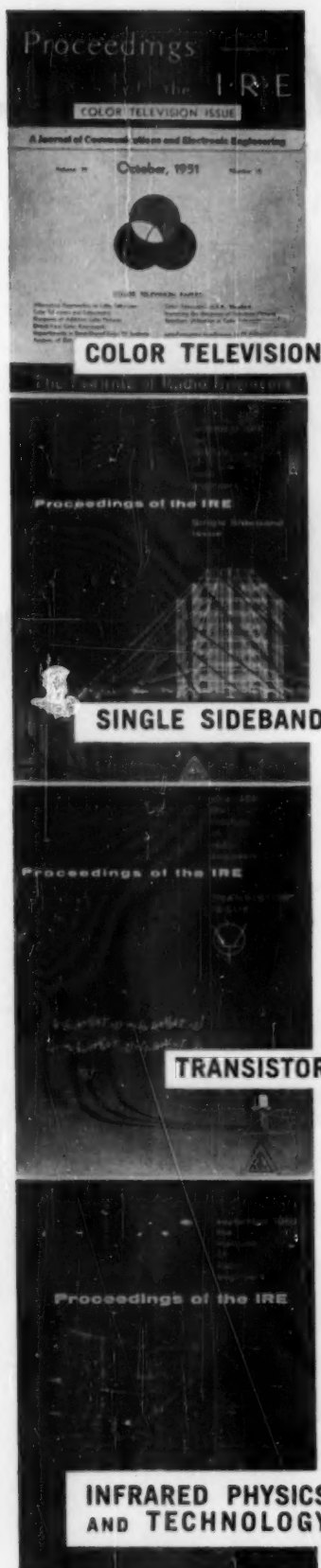
Instruments & Related Products—SIC 38

38	INSTRUMENTS AND RELATED PRODUCTS						
3811	Scientific instruments	63.5	72.3	+293	948	1,180	+909
3812	Mech. measuring instruments	73.3	88.0	+ 42	1,061	1,329	+214
3831	Optical instruments	7.4	8.9	+ 5	109	134	+198
384	Medical Equipment and Supplies						
3841	Surgical and medical instruments	8.7	9.4	+ 34	110	129	+187
3842	Surgical appliances and supplies	25.0	26.8	+ 16	802	897	+132
3843	Dental equipment and supplies	7.2	7.8	- 14	116	141	+ 99
3851	Ophthalmic goods	18.2	20.7	- 8	194	238	+ 97
3861	Photographic equipment	61.2	61.9	+ 11	1,223	1,463	+218
387	Watches and Clocks						
3871	Watches and clocks	23.7	23.4	- 32	338	381	+ 6
3872	Watchcases	2.6	2.3	- 59	34	37	+ 18

Miscellaneous Manufactures—SIC 39

39	MISCELLANEOUS MANUFACTURES						
391	Jewelry and Silversware						
3911	Jewelry (precious metal)	21.0	21.8	- 18	328	339	+ 37
3912	Jewelers' findings	5.1	5.3	- 13	72	78	+ 3
3913	Lapidary work	1.9	2.0	+ 18	41	44	+ 47
3914	Silversware and plated ware	13.9	14.3	- 34	196	218	- 1
393	Musical Instruments and Parts						
3931	Pianos	5.8	6.0	- 6	86	86	+ 78
3932	Organs	2.3	2.8	+100	86	67	+458
3933	Piano and organ parts	3.2	3.7	+ 18	47	58	+190
3939	Musical instruments, n. e. c.	4.6	5.3	- 2	84	93	+103
394	Toys and Sporting Goods						
3941	Games and toys, n. e. c.	42.0	80.5	+ 86	830	849	+257
3942	Dolls	13.9	10.7	+ 70	182	196	+180
3943	Children's vehicles	5.0	6.1	- 31	73	89	+ 4
3949	Sporting and athletic goods	37.1	44.3	+ 49	578	708	+251
395	Office Supplies						
3951	Pens and mechanical pencils	11.0	11.4	- 27	146	158	+ 8
3952	Lead pencils and crayons	4.9	5.0	- 21	73	77	+ 71
3953	Hand stamps and stencils	5.4	5.5	+ 29	80	88	+188
3954	Artists' materials	1.8	1.9	+ 36	28	28	+115
3955	Carbon paper and inked ribbons	5.8	5.8	+ 57	121	136	+178
396	Costume Jewelry and Notions						
3961	Costume jewelry	25.2	25.8	+ 1	253	271	+ 89
3962	Artificial flowers	6.8	6.8	- 4	85	98	+ 77
3963	Buttons	6.3	6.3	- 41	69	74	+ 23
3964	Needles, pins, and fasteners	17.7	17.9	- 22	221	238	+ 82
3971	Plastics products, n. e. c.	112.9	135.2	+132	1,810	2,180	+381
398	Miscellaneous Manufactures						
3981	Brooms and brushes	17.5	18.9	+ 2	285	302	+ 88
3983	Matches	5.1	5.5	- 28	67	73	+ 29
3984	Candles	2.5	2.5	+ 4	34	37	+106
3985	Fireworks and pyrotechnics	1.7	1.8	- 46	17	19	+ 27
3986	Jewelry and instrument cases	6.3	6.6	- 8	80	84	+ 49
3987	Lamp shades	3.9	4.0	- 11	34	36	+ 33
3988	Morticians' goods	17.4	18.5	- 17	238	263	+ 34
3989	Furs, dressed and dyed	2.7	2.4	- 65	27	25	+ 63
3993	Signs and advertising displays	38.1	39.7	+ 39	457	512	+180
3995	Umbrellas, parasols	2.9	3.1	+ 14	36	39	+ 15
3997	Soda fountain, bar equipment	1.0	1.1	- 89	18	20	- 36

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serves all four functions best *because* it serves them all

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Rate-of-Growth Analysis of 801 Leading Corporations

A comfortable trap to fall into is to measure your current sales and profit performance against your company's record 10 years ago. On this basis, whether measured in dollars or units, almost every company can point to substantial percentage gains.

The size of the country in terms of people and buying power is increasing rapidly, however. The question is not

whether you are doing well when you measure yourself against yourself but whether your growth at least matches or preferably surpasses the rate of growth of the economy as a whole.

We suggest you check these figures on 108 public held companies grouped in 47 industries prepared for Sales Management by The Value Line Investment Survey. Check your own company and industry. Check your competitors. Check other companies whose products approximates yours in prices, or in method of distribution. Which are the leaders and the laggards, in sales and profits, as measured over the past 10 years?

These figures will give you perspective on your own standing.

In the following tabulations the companies listed are, in general, the leading organizations in their respective fields. In most cases they account collectively for the major part of their industries. The proportion necessarily varies, since only publicly owned corporations are included and of these only those in whose stocks the investing public as a whole shows considerable interest.

Vivid Picture of Contrasts

These statistics give a vivid picture of how one industry may fare relatively badly while other industries are moving swiftly ahead. For example, individual companies in the farm equipment and in the railroad equipment industries have done poorly in the past decade. In contrast, the impact of technology has produced some spectacular gains in the electrical equipment industry.

Gains, over the past 10 years, have come to three different companies in separate ways. The spectacular increase in General Dynamics comes from the 1950 Korean war and the subsequent high level of military spending, plus some acquisitions. The

growth at Ford Motor can be credited to infusion of new management, while the almost comparable growth at General Motors is testimony to a continuation of outstanding management.

From the point of view of growth in volume and in profits, meat packing continues to be a frustrating industry. Historically, its profit margin is slim. Will packers, in this decade, find the way to break out of this box?

When you are as large as U. S. Steel it is difficult to produce spectacular percentage gains because your base is so high. That is why so many of the smaller steel firms in the past decade have run rings around U. S. Steel in rate of growth and in the 10-year average return on net worth.

The danger of depending largely on a single customer—as Electric Autolite did with Chrysler—is dramatized by the diversification program in the past 10 years which has produced spectacular growth for General Tire.

THE VALUE LINE ORGANIZATION

Studying the past and present and forecasting the future of publicly owned corporations and 62 industries is the business of Arnold Bernhard & Co., Inc., best known for its Value Line Investment Survey which has had a remarkable growth since its founding in 1937.

The Survey brings investors the widest continuous supervision over the field of common stock values in the history of investment services. It goes to more than 25,000 individual and corporate investors who pay \$144 a year for the service. Besides the thousands of individual investors, subscribers include banks, brokers, insurance companies, trusts, colleges and investment advisors.

The company also publishes The Over-The-Counter Special Situations Service, designed for the experienced investor-speculator. In addition, the research organization behind these services acts as investment counsellor to individual investors through the company's investment counselling division. The company also manages three mutual investment trusts—The Value Line Fund, The Value Line Income Fund and The Value Line Special Situations Fund, with aggregate assets of the three funds approximating \$100 million.

The Bernhard staff comprises 130 persons, of whom over 50 are statisticians, economists and security analysts; they keep 1,200 stocks under year-round supervision and for all corporations they hypothesize future sales, as for the ones involved in this exclusive copyrighted study prepared for Sales Management.

KEY TO INITIALS IN TABLES ON PAGES 128-134

- A. Pro Forma
- B. Canadian GNP
- C. Unadjusted Pro Forma
- D. Sales in Sterling
- E. 1948-1957 Average Net Worth
- F. 1951-1958 Average Net Worth
- G. 4-Yr. Average N. W. (1956-59)
- H. 5-Yr. Average N. W. (1955-59)
- I. 6-Yr. Average N. W. (1954-59)
- J. 7-Yr. Average N. W. (1953-59)
- K. 8-Yr. Average N. W. (1952-59)
- L. 9-Yr. Average N. W. (1951-59)
- M. 1957-59 Average N. W.
- NA. Not Available
- NR. Not Relevant

How to beat the "Star System"

You say you don't think too highly of your advertising agency, but the account man is just great, simply great? He's always there when you want him, knows what you want and how to get any job done and done well?

Swell. Now open your mail.

He's leaving the agency for greener pastures? He's sorry to do this to you, but into every man's life . . . ?

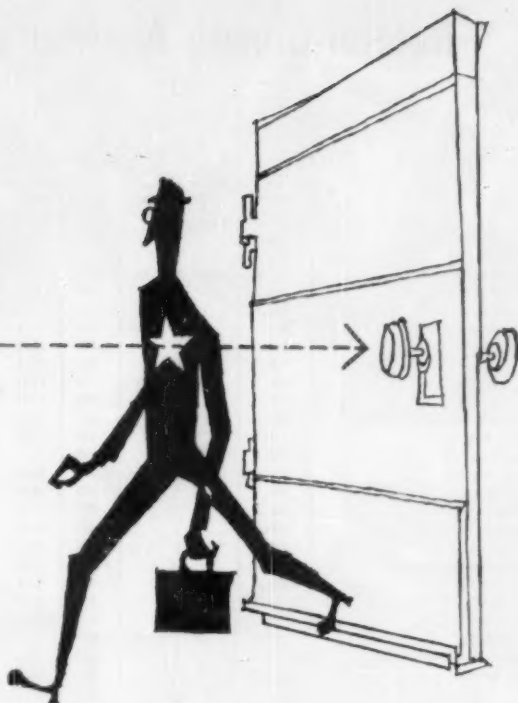
So what will you do? Stick with the agency at any cost? (Might save face with management that way.) Stick with the account man and let him peddle your account out of his hip pocket to the first agency that goes for the bait? (You may not think much of the new one either, if you ever get to know them.)

Or will you go back to the fundamentals that might have saved all this uproar in the first place?

If you're looking for one man, hire *him*. If you're looking for an advertising agency, hire a team of men.

An *agency* can insure continuity on your account—not by one man, but by many. An *agency* can assure you of the best thinking and ideas and creative talents of not one man, but many. And an agency—a well-managed one—can insure that your account receives its full measure of support from its complement of talented people in production, art, media, research and allied services.

You've got to look beyond the man directly responsible for your account. Of course he's important—but no more so than the caliber of the agency management behind him, who determine the standards of service that you have every right to expect, both from him and the agency.



Moreover, it is our belief that you have the right to the attention of more than one account man, in order to insure continuity and depth of service. In addition, good ideas should come from many sources within the agency, and the considerable experience of any or all of our men is available for the benefit of all our clients.

You can buy insurance against the inherent weakness of the "star system" if you are so inclined: simply demand the depth of agency service that comes only from a team effort, including participation by the *management* of the team.

From our personal point of view, we think team work is not only more productive for our clients, it's more fun for us.

**Marsteller, Rickard,
Gebhardt and Reed, Inc.**

A D V E R T I S I N G

NEW YORK • PITTSBURGH • CHICAGO • TORONTO

AFFILIATES

PUBLIC RELATIONS • BURSON-MARSTELLER ASSOCIATES, INC.
MARKETING COUNSEL • MARSTELLER RESEARCH, INC.

Sales Management December 16, 1960 127

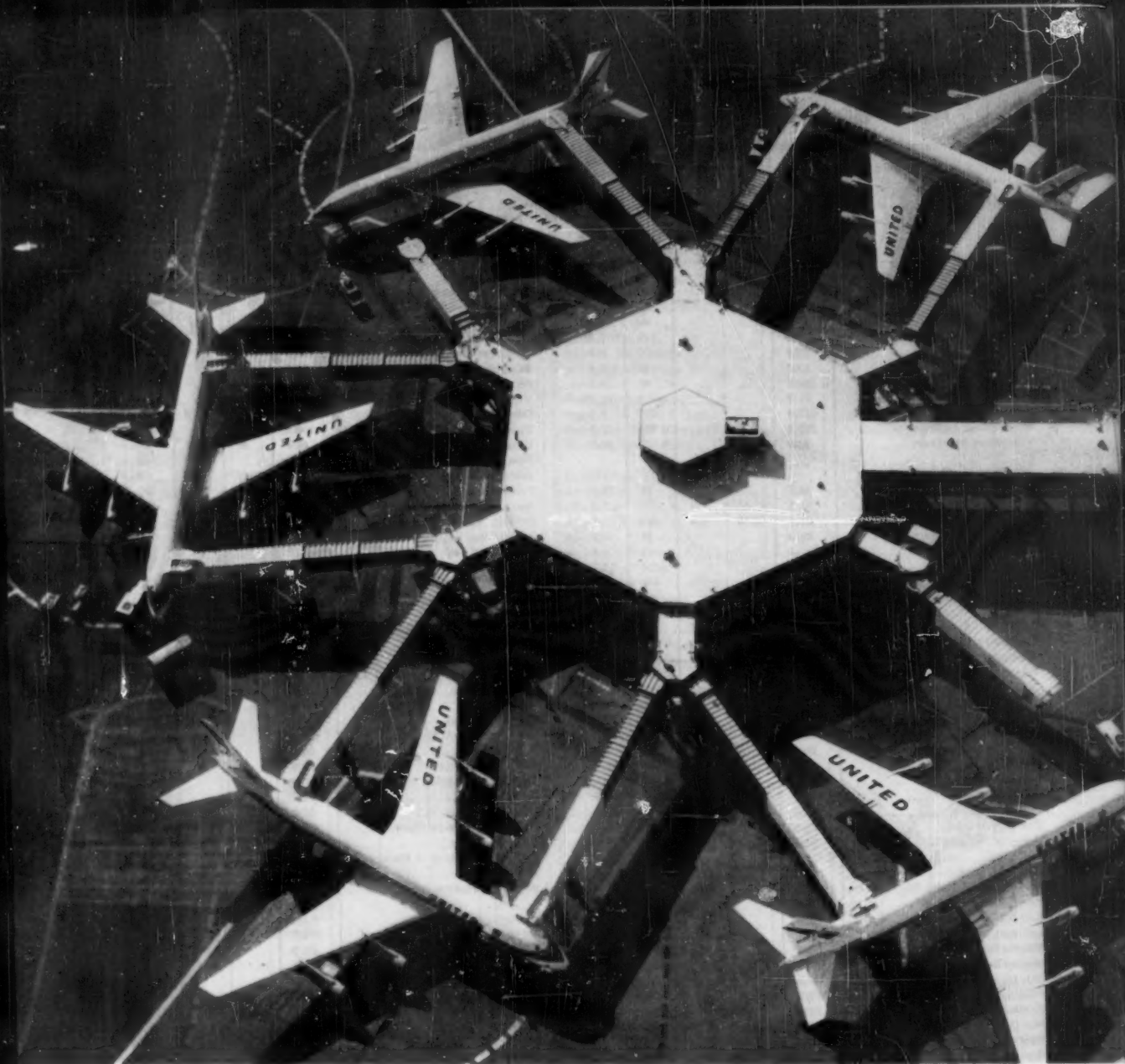
Rate-of-Growth Analysis of 801 Leading Corporations

INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Com- pany Sales Gain Same Period	10-Year Average Return on Net Worth	INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Com- pany Sales Gain Same Period	10-Year Average Return on Net Worth
		Base Period Years (1947- 1949*)	% Gain over Base Period (91*)					Base Period Years (1947- 1949*)	% Gain over Base Period (91*)		
AIRCRAFT						Messey-Ferguson (A)	475.8			188	8.2
American Bosch Arms	120.0	48-51	86	181	15.0	Minneapolis-Moline	83.8			-18	3.9
Beech Aircraft	89.5			275	18.0	Oliver Corp.	114.6			24	5.3
Bell Aircraft	128.1			328	12.3	TIRE					
Bendix Aviation	689.7			325	13.4	Armstrong Rubber	77.4			196	14.9
Boring Airplane	1,612.2			1,010	25.0	Dayco (C)	101.8			296	11.1
Cessna Aircraft	105.8			612	21.0	Firestone	1,187.8			92	12.9
Chance Vought	254.7	54	33	72	17.6	General Tire	676.9			525	11.1
Curtiss-Wright	329.2			296	13.0	Goodrich	77.16			88	10.3
Douglas Aircraft	883.9			627	13.0	Goodyear	1,887.3			136	14.5
Fairchild Engine	114.1			193	4.2	Lee Rubber & Tire	82.2			56	7.7
Garrett Corp.	193.6			1,149	16.4	U. S. Rubber	976.8			75	12.1
General Dynamics	1,811.9			4,193	16.0	AIR TRANSPORT					
Grossman	289.0			593	15.0	American Airlines	377.7			313	13.2
Lockheed	1,301.6			931	14.0	Branch Airways	74.3			405	8.1
Martin Co.	523.7			962	18.0	Capital Airlines	108.5			389	2
McDonnell Aircraft	435.9			1,925	23.0	Continental Airlines	48.0			821	8.8
North American Aviation	1,044.9			1,215	19.0	Delta Air Lines	103.9			696	11.0
Northrop Corp.	282.9			833	21.4	Eastern Air Lines	296.3			375	12.2
Piper Aircraft	34.3			406	26.0	KLM-Royal Dutch (H)	143.5	52-54	NA	74	9.1
Republic Aviation	189.1			337	20.0	National Airlines	70.9			969	17.8
Rohr Aircraft	191.3	50	70	586	24.0	Northeast Airlines	21.5			911	2
Thompson Ramo Wooldridge	417.7			332	12.2	Northwest Airlines	126.0			270	8.6
United Aircraft	1,081.0			403	13.0	Pan American World Airways	396.8			147	8.6
AUTO						Seaboard & Western	19.9	51	NA	444	2
American Motors (A)	989.8			62	7.5	Trans World Airlines	348.5			296	6.6
Chrysler	2,943.0			88	9.5	United Air Lines	330.2			306	10.9
Ford Motor	5,356.9			181	13.7	Western Airlines	63.3			492	15.3
Ford Motor of Canada (B)	517.2	48-50	106	71	11.9	RAILROAD					
General Motors	11,233.0			137	20.4	Atchafalpa	633.9			29	6.1
Studebaker-Packard	367.4			-32	NH	Atlantic Coast Line	196.1			21	4.1
AUTO PARTS						Baltimore & Ohio	395.2			6	3.3
American Metal Products	57.4			242	15.6	Canadian Pacific (B)	477.8		133	38	4.2
Arvin Industries	86.2			86	14.1	Chesapeake & Ohio	348.9			13	9.6
Borg-Warner (A)	649.9			92	12.6	Chicago Great Western	34.2			3	8.0
Briggs & Stratton	89.0			298	24.6	Chicago, Milwaukee	24.2			1	2.6
Budd Co.	321.7			42	7.6	Chicago & North Western	213.4			18	0.4
Clevite Corp.	84.7			200	11.0	Chicago, Rock Island	219.5			18	4.7
Dana Corp.	220.4			105	16.4	Delaware & Hudson	66.1			-23	4.1
Eaton Manufacturing	267.3			181	14.9	Delaware, Lackawanna (E)	71.9			-15	2.4
Electric Autolite	201.6			-1.0	7.9	Denver & Rio Grande	75.4			17	9.0
Electric Storage Battery (A)	144.6	48	84	10	7.5	Erie (E)	154.3			-3	5.0
Federal-Mogul	127.5			469	16.7	Great Northern Ry.	254.6			23	4.7
Gould-National Batteries (E)	73.8			35	11.8	Gulf, Mobile & Ohio	82.1			8	7.8
Houdaille Industries	91.3			50	9.0	Illinois Central	271.7			6	5.8
Kelsey-Hayes	201.8			181	12.2	Kansas City Southern	71.6			24	7.0
King-Seely	46.0			113	11.6	Lehigh Valley R. R.	84.4			-26	2.6
Libby-Owens-Ford	306.7			165	22.2	Louisville & Nashville	229.7			20	6.7
McCord Corp.	43.1			34	6.4	Missouri Pacific	303.4			12	NA
McQuay-Norris Mfg.	25.6			32	7.2	New York Central	689.2			-5	2.3
Midland-Ross Corp. (A)	88.7	82	26	17	15.1	N. Y., Chicago & St. Louis	150.4			83	8.0
Motor Wheel	57.3			10	6.7	New York, New Haven & Hartford	144.3			-8	1.2
Paybestos-Manhattan	88.7			22	9.6	Norfolk & Western	247.0			23	7.0
Rockwell-Standard (A)	284.1			164	14.0	Northern Pacific	183.6			22	3.1
Shoeller Mfg.	42.9			49	13.9	Pennsylvania R. R.	867.7			-3	2.2
Smith (A. O.) Corp.	283.7			122	9.9	Pittsburgh & Lake Erie	30.6			-23	0.6
Stewart-Warner	114.3			68	12.0	Pittsburgh & West Va.	8.0			-5	1.7
Timken Roller Bearing	262.1			140	17.0	Reading Co.	107.0			-10	3.4
Young Spring & Wire	53.8			25	6.9	St. Louis-San Francisco	133.6			17	5.7
TRUCK						Seaboard Air Line	161.4			29	9.8
Divco-Wayne Corp.	36.0			235	13.4	Southern Pacific	690.3			28	4.7
Fruehauf Trailer	249.0			195	7.0	Southern Rail	271.9			20	6.5
Gar Wood Industries	25.5			12	2.9	Union Pacific	519.8			24	6.8
Mack Trucks	287.4			186	8.6	RAILROADS—Continued					
White Motor	333.1			241	9.4	Western Maryland	44.9			7	-5.0
AGRICULTURAL EQUIPMENT						Western Pacific	52.1			27	5.9
Allis-Chalmers	539.6			82	9.5	Greyhound	321.7			74	16.2
J. I. Case	200.6			48	4.4	National City Lines	26.5			24	12.5
Deere	542.5			84	10.8	RAILROAD EQUIPMENT					
Cockshutt Farm Equip.	38.7			-1	3.9	ACF Industries	263.6			89	6.0
International Harvester	1,363.2		133	58	7.5	Alta Products	114.6			-14	7.3
						American Brake Shoe	168.0			57	6.5

* Except otherwise indicated, base period is 1947-49 and % gain is 91%.

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UNITED AIR LINES FLIES JETS TO THE MOST U.S. CITIES ...TO GIVE SHIPPERS SAME-DAY DELIVERY

Every United Air Lines Jet Mainliner® carries freight—at nearly 600 MPH! A United DC-8 Jet has 10½ tons cargo capacity—each 720 Jet can carry 8 tons.

No other airline can move as much freight by jet as United. No other airline serves so many cities by jet as United. This is why jet freight is important to United ... and important to you.

In less than a year, United's Jets have revolutionized shipping techniques. For example, you can now ship

coast to coast in less than five hours. So you can get same-day delivery everywhere that United Jets fly.

In addition, you can ship on United's fleet of fast Mainliners and Cargoliners. This combination lets you ship almost anything, anywhere, any time. So next time you want fast, reliable air freight service, call United Air Lines. Your freight will be handled with Extra Care.



THE NATION'S NO. 1 AIR CARGO ROUTE

Rate-of-Growth Analysis of 801 Leading Corporations

INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		10-Year Average Return on Net Worth	INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		10-Year Average Return on Net Worth
		Base Period Years (1947- 1949*)	% Gain over Base Period (91*)				Base Period Years (1947- 1949*)	% Gain over Base Period (91*)	
American Steel Foundries...	112.3		63	8.7	Allied Chemical...	719.7		83	11.7
General American Transportation...	199.7		90	9.0	American Cyanamid...	583.6		198	12.4
General Rwy. Signal...	21.8		65	12.1	Atlas Powder...	70.7		79	9.7
National Malleable...	58.4		40	8.0	Canadian Industries Ltd.	148.0		NA	NA
New York Air Brake...	43.0		140	8.0	Catalin Corp.	22.3		205	7.3
Pittsburgh Forgings...	20.9		-23	8.0	Chemtron Corp.	130.3	83	31	18
Pow & Co.	30.0		49	9.6	Columbian Carbon...	76.2		86	9.3
Pullman...	299.0		87	9.0	Commercial Solvents...	70.4		63	8.0
Stanray...	21.2		-2	13.7	Diamond Alkali...	137.9		198	10.0
Union Tank Car...	118.5		583	9.2	Dow Chemical...	708.4		322	12.6
Westinghouse Air Brake...	209.5		185	11.3	Dupont...	2,144.0		129	17.5
Youngstown Steel Door...	22.2		87	14.2	Dupont of Canada Ltd. (B)	80.9	54	39	83
SHIPPING & SHIPBUILDING					Freepart Sulphur...	83.2		123	16.6
American Export Lines...	64.6		29	7.6	Grace, W. R.	489.7	50-52	50	86
Lykes Bros. Steamship...	61.1	48-50	79	-21	Harshaw Chemical...	70.0		106	9.2
McLean Industries (E)	68.1	55-58	NA	NA	Hercules Powder...	263.6		123	15.7
Muirs-McCormack Lines...	69.8		-15	7.3	Hooker Chemical (A)	148.8	81	46	83
U. S. Lines...	138.5		84	13.4	Interchemical Corp.	122.6		58	11.3
Bath Iron Works...	56.9		224	11.7	International Salt...	31.2		125	15.8
Merritt-Chapman Scott (A)	427.6		278	8.6	Koppers...	240.3		30	7.7
Newport News Shipbuilding...	191.1		160	10.9	Minnesota Mining...	580.7		375	19.1
PETROLEUM					Monsanto Chemical (A)	811.4		270	12.3
Amerasia Petroleum...	102.4		77	16.8	Montecatini...	303.3	81	NA	66
Anderson-Pridhard...	72.8		182	10.9	Oil-Matheson Chemical...	702.0		NA	10.0
Arkansas Fuel Oil (J)	168.0	48-50	89	13.1	Pennsalt Chemicals...	87.5		174	7.4
Ashland Oil & Refining...	300.6		362	11.3	Pittsburgh Coke & Chemical...	70.0		247	7.0
Atlantic Refining...	841.3		34	9.4	Reichheld Chemical (H)	93.6		215	9.5
British American Oil...	328.3		NA	10.3	Remington Arms...	74.8		63	16.2
Buckeye Pipeline...	22.7		188	9.7	Rohm & Haas...	215.9		283	15.3
Canadian Oil Companies (B)	91.4		189	8.0	Spencer Chemical...	57.6		330	16.0
Champion Oil & Ref.	72.2		644	13.8	Stauffer Chemical (A)	228.1		139	13.6
Cities Service...	984.9		81.5	10.1	Sun Chemical...	84.0		54	9.6
Continental Oil...	686.8		135	14.0	Texas Gulf Sulphur...	63.6		9	28.9
Crescent Petroleum...	955.3		108	34.0	Thiokol Chemical (A)	180.2		NA	18.5
Debi-Taylor Oil...	89.6		NA	11.5	Union Carbide...	1,531.3		184	17.2
Getty Oil...	10.3	50-51	NA		United Carbon...	82.2		181	12.7
Gulf Oil...	2,713.0		235	13.7	American Agricultural Chemical...	91.6	48-50	70	105
Imperial Oil Ltd. (B)	857.4		181	11.0	American Potash...	84.6		292	9.1
Interprovincial Pipeline (B)	94.2	81	108	284	International Minerals & Chemical...	112.6		133	8.4
Kerry County Land...	96.8		390	22.4	Tennessee Corp.	76.9		111	14.8
Kerr-McGee Oil (A)	132.6		180	9.4	Virginia-Carolina Chemical...	81.8		57	6.5
Louisiana Land & Exploration...	38.7		242	63.5	DRUG				
Mission Corp.	206.1		209	3.2	Abbott Laboratories...	122.6		89	14.1
Mission Development...	158.8	48	NA	181	Allied Laboratories...	30.2		180	12.6
Ohio Oil...	344.8		112	13.5	American Home Products...	420.8		203	29.0
Phillips Petroleum...	1,163.0		166	10.7	Avon Products...	141.9		856	28.8
Plymouth Oil...	89.7		283	15.8	Bristol-Myers...	131.5		197	13.2
Pine Oil...	499.0		90	10.0	Carter Products (I)	88.9		NA	37.9
Richfield Oil...	289.9		140	18.2	Chesbrough-Pond's...	66.3		NA	13.9
Royal Dutch (F)	7,221.1	NR	NR	NA	Coty, Inc.	22.7		27	3.2
Shamrock Oil & Gas...	57.1		195	28.7	Gillette...	209.3		186	40.7
Shell Oil...	1,610.0		139	16.0	Johnson & Johnson...	301.2		99	10.9
Shell Transport & Trading...	7,221.1		NA	NA	Lohn & Fink...	32.6		111	11.0
Signal Oil & Gas "A"	194.3		NA	15.4	Lilly, Eli...	187.0		77	14.0
Sinclair Oil...	1,232.2		116	10.1	McKesson & Robbins...	676.7		78	10.9
Skelly Oil...	258.6		66	12.2	Mead Johnson...	86.7		137	14.2
Socony-Mobil...	3,082.9		189	10.2	Merck (A)	216.9		86	11.8
South Penn Oil...	55.8		81	10.2	Norwich Pharmaceutical...	40.7		279	21.7
Standard Oil (Calif.)...	1,564.8		134	14.9	Purke, Davis...	191.5		145	19.7
Standard Oil (Ind.)...	19,568.0		78	8.4	Pfizer, Chas.	253.7		465	15.0
Standard Oil (Ky.)...	305.3		67	16.6	Pfizer, Inc.	34.0		130	15.8
Standard Oil N. J.	7,910.7		178	14.3	Revlon...	124.9	49	86	638
Standard Oil (Ohio)...	287.6		92	9.9	Rexall Drug...	227.0		33	8.3
Sun Oil...	735.7		85	10.4	Schering...	80.6		560	24.1
Sunray-Midcontinent Oil...	461.0		638	10.8	Searle, G. D.	34.5		238	26.3
Texas Canada Ltd. (B)	104.4		168	17.0	Smith, Kline & French...	134.9		272	33.0
Texas Inc.	2,678.0		170	14.6	Sterling Drug...	209.2		58	21.0
Texas Gulf Producing...	17.7		182	17.8	U. S. Vitamin...	14.9		282	18.9
Texas Pacific Coal & Oil...	25.9		104	16.0	Upjohn...	186.9	48-49	189	16.2
Tidewater Oil...	589.4		83	8.6	Vick Chemical...	115.2		176	13.0
Union Oil of Calif.	423.8		123	9.7	Warner-Lambert (G)	190.7		NA	22.7
CHEMICAL					COAL				
Air Products...	48		2,296	11.8	Consolidation Coal...	282.8		NA	8.0
Air Reduction...	200.6		123	10.2	Eastern Gas & Fuel Associates...	157.0		3	6.9

* Except otherwise indicated, base period is 1947-49 and % gain is 91%

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INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Com- pany Sales Gain Same Period	10-Year Average Return on Net Worth	INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Com- pany Sales Gain Same Period	10-Year Average Return on Net Worth
		Base Period Years (1947- 1949*)	1959 % Gain over Base Period (91*)					Base Period Years (1947- 1949*)	1959 % Gain over Base Period (91*)		
Island Creek Coal	98.9			133	11.0	Scott Paper	297.2			316	13.7
Peabody Coal	109.4			NA	11.0	Union Bag-Camp Paper (A)	180.8			127	14.1
Pittston (L)	229.4			140	8.9	West Virginia Pulp & Paper	233.1			161	9.2
Truax-Trax Coal	33.9			81	11.1						
United Electric Coal	18.8			31	8.8						
West Kentucky Coal	31.4			NA	17.6						
BUILDING						HYDRO UTILITY					
Alpha Portland Cement	39.4			119	12.9	American Water Works	48.0			94	8.0
American Cement (A) (J)	56.8	53-55	28	17	15.1	British Columbia Power (B)	96.9		132	168	NA
American-Marietta	323.6			833	14.2	Idaho Power	33.6			200	7.8
American Sealing	39.4			90	11.3	Pacific Power & Light	57.8			273	NA
American-Standard	517.4			88	9.8	Puget Sound Power & Light	32.4	53	NA	60	NA
Armstrong Cork	296.8			82	9.5	Shawinigan Water & Power (B)	77.1		132	215	NA
Bestwall Gypsum (M)	39.4			NA	18.0	Washington Water Power	36.3			119	NA
Canada Cement	21.3			NA	13.4						
Caray (Phillip) Mfg.	73.2			73	9.5	ELECTRICAL EQUIPMENT					
Carrier Corp.	263.4			414	8.8	Admiral Corp.	190.6	47-49	91	164	10.0
Celotex Corp.	78.2			94	9.2	Ampex Corp. (I)	68.1			NA	14.0
Congoleum-Nairn	47.8			-4	3.2	Amphenol-Borg (A)	56.5			214	11.4
Corning Glass	204.9			204	19.6	Avco Corp.	306.0			136	6.1
Crane Co.	310.2			56	8.5	Bockman Instruments	44.9			1,130	8.7
Diamond National	228.8			206	9.4	Bell & Howell	81.3			276	9.8
Eagle-Picher	120.9			64	11.3	Bulova Watch	66.6			23	8.1
Evans Products	84.4			337	10.5	Collins Radio	117.9			1,100	12.8
Fedders Corp.	55.8			139	14.4	Cutler-Hammer	200			200	16.2
Ferro Corp.	63.9			136	11.2	Daystrom	80.6			114	7.5
Flintkote Co.	221.1			196	9.7	Dynamics Corp. of America	37.6			242	14.6
General Portland Cement (A)	87.2			177	19.4	Emerson Electric Mfg.	91.3			23	12.2
Georgia-Pacific	192.0			480	15.8	Emerson Radio	67.4			94	13.6
Giant Portland Cement	18.8			373	20.3	Fairchild Camera	43.4			386	8.7
Holland Furnace	30.3			-19	6.8	General Controls	40.0			827	10.0
Ideal Cement	108.8			343	16.2	General Electric	4,358.0			149	18.8
Johns-Manville	377.8			141	12.9	General Instrument	56.2			218	7.9
Kaiser Industries (G)	214.8			NA	8.8	General Precision	215.6			696	8.5
Lehigh Portland Cement	88.7			134	10.1	General Tire	59.2			84	8.0
Lone Star Cement	194.3			142	13.3	Hoffman Electronics	48.4			863	14.5
Marquette Cement	87.2			212	15.7	International Resistance	19.8			274	18.6
Masonite Corp.	71.8			186	12.1	International Telephone	765.6			290	6.6
Murray Corp.	55.5			-35	8.9	Litten Industries (H)	125.5			NA	15.0
National Gypsum	228.3			278	12.0	Magnavox	90.6			300	16.0
National Homes	94.1			1,488	14.9	Mallory, P. R.	86.5			257	12.2
National Lead	539.6			62	19.8	Maytag	123.1			101	21.4
Otis Elevator	201.7			149	16.8	McCrar-Edison	283.9	NA	NA	NA	14.7
Owens-Corning Fiberglass	211.3			382	13.3	Minneapolis-Honeywell	381.4			500	16.2
Penn-Dixie Cement	81.6			201	14.5	Motors	289.5			356	18.6
Permanente Cement	77.2			320	18.4	Odgen Corp. (H)	489.8			NA	14.4
Pittsburgh Plate Glass	806.9			121	13.4	Packard-Bell	46.6			980	18.0
Rheon Mfg.	140.3			149	8.8	Philco	397.9			67	7.6
Rubertoid	127.3			136	9.6	Radio Corp.	1,388.4			291	18.3
Screw & Bolt Corp.	22.2			-17	7.7	Raytheon	494.3			738	10.3
Sherwin-Williams	275.4			80	10.8	Reliance Electric & Engineering	79.9			290	13.6
Trans Co.	84.1			272	15.6	Robertshaw-Fulton	79.5			163	18.8
U. S. Gypsum	301.0			129	18.0	Ransom	38.8			84	8.3
U. S. Plywood	276.2			317	10.3	Sangamo Electric	52.9			170	11.9
Walworth	73.2			97	8.7	Schick, Inc.	22.4			163	18.5
Warren Bros.	74.2			224	11.2	Singer Mfg. (L)	496.1	51	48	81	6.5
Weyerhaeuser Co.	458.3			227	11.4	Square D	110.3			196	17.0
						Standard Kellman	73.8			NA	18.7
						Sunbeam Corp.	127.5			133	19.1
						Texas Instruments (A) (H)	193.2			NA	17.8
						Tung-Sol Electric	72.4			424	16.7
						Wagner Electric	111.4			59	10.5
						Westinghouse Electric	1,910.7			110	8.4
						Whirlpool Corp. (H)	430.5			228	12.9
						Zenith Radio	280.0			208	18.0
						TELEPHONE					
						American Cable & Radio	34.0			83	24.8
						American Telephone	7,392.0			198	9.3
						Bell Telephone of Canada (B)	378.6		133	291	1.8
						General Telephone	786.9			613	8.6
						New England Telephone & T	380.0			141	13.0
						Pacific Telephone & T	1,040.7			208	7.8
						Southern New England Telephone	127.9			172	13.6
						Western Union Telegraph	276.2			43	8.2
						BUSINESS MACHINES					
						Addressograph-Multigraph	132.1			219	16.6
						Burroughs Corp. (K) (A)	388.1			300	10.7

* Except otherwise indicated, base period is 1947-49 and % gain is 91%.

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Rate-of-Growth Analysis of 801 Leading Corporations

INDUSTRY	Company	Gross National Product		10-Year Average Return on Net Worth	INDUSTRY	Company	Gross National Product		10-Year Average Return on Net Worth
		Sales 1959 (\$ millions)	% Gain over Base Period (1947-1949*)				Sales 1959 (\$ millions)	% Gain over Base Period (1947-1949*)	
	Haloid-Xerox	31.7		306		Faste Mineral	20.2		477
	International Business Machines	1,309.8		702		Howe Sound	83.7	NR	NR
	Moore Corp., Ltd.	144.3		187		Hudson Bay Mining & Smelting	45.9	NR	26
	National Cash Register	419.1		165		Inspiration Consolidated Copper	29.9		101
	Pitney-Bowes, Inc.	57.5		243		International Nickel	456.8		151
	Royal McBee (A)	104.0		130		Kaiser Aluminum	435.8		445
	Smith Corona-Marchant (A)	90.4		135		Kennecott Copper	437.2		44
	Sperry Rand	1,174.1		364		Lithium Corp.	10.6		2,000
	Underwood Corp.	75.4		42		Magma Copper	42.1		555
						Molybdenum Corp.	21.4	NR	NR
METAL FABRICATING						New Jersey Zinc	NA	NR	NR
	Bahco Aluminum	45.7		35		Newmont Mining	290.7		NA
	Birdgeport Brass	173.1		172		Noranda Mines, Ltd. (B)	33.9	140	116
	Continental Copper & Steel	53.7		201		Phelps Dodge	285.8		27
	Fansteel Metallurgical	31.0		288		Reynolds Metals	486.3		288
	General Cable	170.4		124		Rhodesian Selection Trust (D)	67.6		207
	International Silver	57.1		-4		Rean Antelope (D)	49.6		229
	Mueller Brass	68.7		85		St. Joseph Lead	86.2		8
	Revere Copper & Brass	245.9		78		U. S. Steel	181.3		NA
	Scovill Mfg.	152.7		104		U. S. Smelting	27.3		-33
	Vanadium	70.0		304		Ventures, Ltd.	46.8	54	NR
STEEL						MINING			
	Acme Steel	133.8		142		Cleveland Cliffs	83.8		7
	Algoma Steel	162.7		886		Dome Mines	5.9		-3
	Allegheny Ludlum Steel	230.7		104		Great Northern Iron Ore	4.3		7
	Armco Steel (A)	1,022.4		110		Hanna, M. A.	16.8		NA
	Atlas Steels, Ltd. (B)	45.0		168		Hollinger Consolidated Gold	9.4		NA
	Bethlehem Steel	2,055.7	133	71		Homestake Mining	20.1		43
	Bliss & Laughlin	52.7		183		Karr-Addison Gold Mines, Ltd.	10.1		165
	Carpenter Steel	68.9		184		McIntyre-Porcupine Mines, Ltd.	9.8		28
	Colorado Fuel & Iron	280.3		142					
	Copperweld Steel	138.4		145		MACHINERY			
	Crucible Steel	219.3		93		American Chain & Cable	113.0		80
	Detroit Steel	116.7		320		American Machinery & Foundry	283.8		1,134
	Dominion Foundries	39.3		890		American Machine & Metals	91.0		289
	Dominion Steel & Coal	11.0		11		American Motor	38.1		123
	Eastern Stainless Steel	67.0		890		Balchcock & Wilcox	332.1		138
	Firth-Sterling	17.2	48	94		Baldwin-Lima-Hamilton	137.2		21
	General Refractories	56.1		89		Black, Sivalis & Bryson	41.8		146
	Granite City Steel	184.4		335		Blaw-Knox (A)	161.3		80
	Harbison-Walker Refractories	87.9		97		Bliss, E. W. (A)	74.6		88
	Harsco Corp.	94.0		865		Bucyrus-Erie	75.4		21
	Inland Steel	705.1		87		Canada Iron Foundries, Ltd. (B)	106.7	132	248
	Interlake Iron	113.9		101		Caterpillar Tractor	742.3		236
	Jones & Laughlin Steel	755.7		94		Chicago Pneumatic Tool	83.0		170
	Kaiser Steel	201.9		278		Clark Equipment	208.2		243
	Lone Star Steel	112.9	48	184		Combustion Engineering	325.9		299
	Lukens Steel	83.1		47		Continental Motors	139.9		87
	McLouth Steel	178.8		587		Cooper-Bessemer	86.9		107
	National Steel	737.0		86		Dominion Bridge (B)	123.4	51-53	65
	Page-Hersey Tube	8.4		127		Draper Corp.	51.2		NA
	Phoenix Steel	60.8		44		Dresser Industries	232.3		199
	Pittsburgh Steel	149.9		89		Ford Machinery & Chemical	342.9		325
	Republic Steel	1,078.8		87		Foster Wheeler	163.7		144
	Sharon Steel	119.4		20		Gardner Denver	74.8		303
	Steel Co. of Canada	321.5		192		Grinnell Corp.	209.5	80	106
	U. S. Pipe & Foundry	119.9		204		Haliburton Oil Well	192.5		278
	U. S. Steel	3,643.0		80		Harris Intertype	63.9		132
	Wheeling Steel	207.3		44		Ingersoll-Rand	161.6		82
	Woodward Iron	54.2		138		Jay Manufacturing	91.1		84
	Youngstown Sheet & Tube	606.1		79		Koehring Co.	98.9		233
						Link Belt	182.6		83
NON-FERROUS METALS						Manning, Maxwell & Moore	46.3		187
	Aluminum, Ltd.	440.7		140		Mergenthaler Linotype	37.8		250
	Aluminum Co. of America	886.5		122		Mesta Machine	24.8		23
	American Metal-Climax (A)	988.5	50-59	NA		F. E. Myers & Bro.	79.2		90
	American Smelting	390.4		67		Outboard Marine	171.6		488
	American Zinc, Lead & Smelting	50.6		41		Reed Roller Bit	28.2		40
	Anacosta	632.7		86		Rex Chainbelt	86.4		184
	Bunker Hill	46.5		48		Rita Co.	27.2		192
	Cerro de Pasco (A)	156.4	50	354		Rockwell Mfg.	122.7		80
	Consolidated Mining & Smelting	110.1		-6		Symington-Wayne	47.3		208
	Copper Range	41.7		178		Textron, Inc.	308.2		147
	Falconbridge Nickel Mines, Ltd.	64.2		529		Torrington Co.	52.0		68
						Udylite Corp.	53.5		134

* Except otherwise indicated, base period is 1947-49 and % gain is 91%

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† Deficit

Rate-of-Growth Analysis of 801 Leading Corporations

INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Company Sales Gain Same Period	10-Year Average Return on Net Worth	INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Company Sales Gain Same Period	10-Year Average Return on Net Worth
		Base Period Years (1947- 1949*)	1959 % Gain over Base Period (91*)					Base Period Years (1947- 1949*)	1959 % Gain over Base Period (91*)		
United Engineering & Fdry.	81.1			17	14.9	SUGAR					
U. S. Industries	86.6			64	4.9	Amalgamated Sugar	80.6			47	9.0
White (SS) Dental Mfg.	32.1			67	6.9	American Crystal Sugar	83.5			83	6.0
Werthington Corp.	180.3			104	11.3	American Mucosives	59.4			106	7.0
Yale & Towne	144.1			135	7.4	American Sugar Refining	335.8			22	7.0
MACHINE TOOL						Central Aguirre Sugar	17.2			42	8.0
Black & Decker	52.8			127	14.8	Cuban-American Sugar	56.9	NR	NR	NR	7.7
Brown & Sharpe Mfg.	33.7			52	5.8	Great Western Sugar	164.4			74	8.0
Ballard Co.	18.9			79	8.4	Holly Sugar	89.2			74	9.0
Carborundum Co.	114.1			129	10.0	National Sugar Refining	189.0			40	6.0
Cincinnati Milling Machine	106.4			221	9.3	South Porto Rico Sugar	35.8	NR	NR	NR	10.0
Ex-Cell-O	112.8			229	17.0	CONFECTIONERY					
Kearney & Trecker	16.6			34	3.9	American Chicle	68.7			95	20.0
Monarch Machine Tool	9.2			22	9.9	Hershey Chocolate	167.4			16	17.5
National Acme	22.7			47	11.4	Wrigley (Wm.)	92.6			54	15.4
Nicholson File	27.3	54	32	81	10.0	SOFT DRINK					
Simonds Saw & Steel	61.4			125	13.8	Canada Dry	98.6			102	9.8
Stanley Works	108.7			73	8.4	Coca-Cola	342.3			80	16.0
Starrett, L. S.	12.8			60	10.5	Dr. Pepper	12.4			65	12.2
Sundstrand Corp.	81.6			613	18.1	Pepsi-Cola	157.8			218	17.8
Union Twist Drill	17.1			57	8.4	Royal Crown Cola	21.0			91	29.0
United-Greenfield Corp. (A)	46.2	52	38	—5	9.4	VEGETABLE OIL					
Van Norman Industries	44.5			232	2.1	Anderson, Clayton	737.1			33	8.3
Warner & Swasey	56.7			296	12.3	Archer-Daniels-Midland	239.4			†	8.9
FOOD PROCESSING						Contra Soya	265.0			207	11.4
Beech Nut-Life Savers, Inc. (A)	118.6			42	12.0	Calgate-Palmolive	582.0			91	10.0
California Packing	382.5			119	9.2	Glidden & Co.	195.8			7	9.5
Campbell Soup	496.5			128	13.3	Procter & Gamble	1,368.5			110	14.9
Consolidated Foods	388.6			157	7.1	Spencer Kellogg	130.5			—8.2	3.4
Corn Products Co. (H) (A)	678.4	83	31	41	12.1	DEPARTMENT STORE					
General Foods	1,067.1			143	14.9	Allied Stores	679.6			67	8.2
Gerber Products	131.1			256	18.3	Associated Drygoods	290.1			99	9.2
Hawaiian Pineapple	91.9			131	6.3	Bullock's Inc.	155.4			40	9.5
Heinz, H. J.	340.0			88	7.5	Federated Department Stores	759.9			126	13.5
Libby, McNeill & Libby	296.2			100	7.0	Gimbel Bros.	404.6			37	7.7
Minute Maid Corp.	99.1			NA	7.8	Interstate Dept. Stores	90.3			42	8.7
Penick & Ford	56.9			39	16.6	Macy, R. H.	471.8			86	6.5
Staley (A. E.) Mfg.	168.7			33	8.4	Marshall Field	234.3			32	7.8
Standard Brands	521.8			92	8.9	May Dept. Stores	684.0			47	10.0
Stokely-Van Camp	156.2			60	7.7	Mercantile Stores	167.8			46	9.5
United Fruit	312.9			NA	10.0	Ponney, J. C.	1,437.5			70	18.3
MEAT PACKING						Alden's Inc.	114.7			86	9.1
Armour	1,869.8			2	4.2	Montgomery Ward	1,222.6			6	6.7
Cudahy Packing	354.1			—38	1.6	National Belfax Hess	47.2			75	12.5
Merrell (John)	436.3			50	5.4	Sears, Roebuck	4,036.2			88	14.6
Swift & Co.	2,475.5			9	5.0	Solegel, Inc.	216.7	56	15	56	8.8
Wilson & Co.	665.5			9	6.1	Barker Bros.	96.8			219	6.3
DAIRY						Best & Co.	41.9			12	8.9
Arden Farms	322.6			276	8.5	Bond Stores	84.8			2	6.6
Beatrice Foods	433.1			121	10.4	Lane Bryant	76.8			53	11.8
Borden Co.	941.3			81	10.9	Lerner Stores	189.0			60	8.8
Carnation Co.	396.3			57	11.5	Western Auto Supply	265.4			114	10.2
Fairmont Foods	97.3			—12.7	4.5	VARIETY STORE					
Foremost Dairies	440.1			27	17.6	Grant, W. T.	480.0			167	9.4
National Dairy Products	1,606.7			73	17.6	Green, H. L.	133.3			36	9.0
Pet Milk	190.3			33	7.1	Kresge, S. S.	404.9			43	7.7
MILLING						Kress, S. H.	164.4			—4	8.3
Allied Mills	112.8			43	8.3	McCary-McLellan Stores	171.0			16	9.6
General Mills	846.0			32	11.7	Murphy, G. C.	238.8			80	12.2
Kellogg Company	242.4			143	30.0	Neisner Bros.	69.7			26	5.9
Pillsbury Company	339.7			75	7.4	Newberry, J. J.	138.0			83	9.9
Quaker Oats	322.2			92	13.0	Woolworth, F. W.	916.8			50	8.8
Ralston-Purina	630.6			131	13.1	Peoples Drug Stores	67.2			94	10.1
BAKING						United Whelan Corp.	48.2			—41	4.4
American Baking	159.2			54	12.0	Walgreen Co.	285.1			73	12.3
Continental Baking	385.9			148	13.2	GROCERY STORE					
General Baking	189.2			89	7.4	American Stores	899.5			118	11.4
National Biscuit	429.0			51	11.9	Colonial Stores	480.0			118	14.1
Sunshine Biscuits	198.9			90	13.1	Dominion Stores (B)	388.4		133	545	19.4
United Biscuit	137.6			83	8.3						
Ward Baking	162.0			26	8.7						

* Except otherwise indicated, base period is 1947-49 and % gain is 91%

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†Decline.

Rate-of-Growth Analysis of 801 Leading Corporations

INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Com- pany Sales Gain Same Period	10-Year Average Return on Net Worth	INDUSTRY Company	Sales 1959 (\$ millions)	Gross National Product		% Com- pany Sales Gain Same Period	10-Year Average Return on Net Worth
		Base Period Years (1947- 1949*)	1959 % Gain over Base Period (91*)					Base Period Years (1947- 1949*)	1959 % Gain over Base Period (91*)		
First National Stores	531.8			88	11.3	TOBACCO					
Food Fair Stores	780.0			849	17.4	American Tobacco	1,611.4			37	11.5
Grand Union	603.5			330	12.4	Imperial Tobacco of Canada, Ltd. (B)	29.3	133		225	17.9
Great A. & P.	5,048.6			83	11.4	Liggett & Myers	884.9			2	10.0
Jewel Tea	482.9			206	13.2	Lorillard (P.)	490.9			249	12.6
Kroger Co.	1,911.9			140	13.4	Philip Morris	480.8			83	9.8
Lucky Stores	178.7	49-51	86	440	15.0	Reynolds Tobacco	1,386.9			78	14.1
National Tea	629.5			226	12.2	Bayuk Cigars	32.2			48	8.6
Penn Fruit	188.9			377	10.2	Consolidated Cigar	90.0			116	10.3
Safeway Stores	230.3			110	11.5	General Cigar	61.4			70	6.5
Winn-Dixie Stores	686.4			887	24.0	American Snuff	23.5			91	10.6
TEXILE						Holms, Geo. W.	17.4			91	9.0
American Enka	108.2			183	7.5	U. S. Tobacco	32.3			80	11.1
American Viscose	239.8			13	7.3	Universal Leaf Tobacco	215.5			194	11.1
Seacrest Mills	124.1			139	8.8	BREWING					
Bigelow-Sanford	72.0			1	2.9	Anheuser-Busch, Inc.	298.0			148	7.5
Botany Industries	78.7	54	32	236	NA	Canadian Breweries	212.0			192	12.0
Burlington Industries	806.8			214	7.2	Drewry's, Ltd. U. S. A. Inc.	31.3			247	14.3
Canadian Celanese, Ltd.	NA			NA	10.3	Falstaff Brewing	111.6			344	15.7
Carmen Mills	207.1			39	8.8	International Breweries (G)	17.0			NA	12.5
Celanese	285.2			37	8.3	Pabst Brewing	146.8	NR	NR	NR	NR
Cluett Peabody	113.9			54	8.8	DISTILLING					
Collins & Aikman	49.0			58	2.7	American Distilling	89.7			75	8.9
Cone Mills	190.3			67	6.5	Distillers Corp.-Seagrams	731.4			5	10.3
Dan River Mills	173.7	48	88	167	6.4	National Distillers & Chemical Products	875.0			56	8.1
Dominion Textile, Ltd. (B)	97.4	55	20	-16	8.0	Publicker Industries	118.3			-20.3	1
Industrial Rayon	82.1			22	8.8	Schenley Industries	480.0			-6	6.4
Lowenstein (M) & Sons	286.7			149	7.8	Walker (Hiram)	412.1			37	12.3
Manhattan Shirt	33.5			40	6.8	CONTAINER					
Mohasco Industries (A)	101.2			-21	NA	American Can (A)	1,107.4			131	8.2
Pepperell Mfg.	93.0			25	8.8	Anchor Hocking Glass	141.1			131	13.2
Simmons Co.	132.6			11	9.6	Container Corp. (H) (A)	322.3	88	21	18	14.1
Stevens, J. P.	489.4			78	9.3	Continental Can (A)	1,148.8			187	9.5
United Merchants	414.7			105	10.2	Crown Cork & Seal	123.2			42	3.6
West Point Mfg.	145.6			53	10.7	Federal Paper Board (A)	78.1	84	32	27	12.7
SHOE						Fibreboard Paper Products (H-A)	119.5			55	9.9
Brown Shoe (A)	276.8			82	12.8	KVP Sutherland Paper (A)	86.5			97	9.7
Endicott-Johnson	146.1			-4	3.7	Lily Tulp Cup	98.4			248	15.1
Genesco, Inc. (A)	276.4	48-50		97	11.8	National Can (A)	101.8			196	3.6
International Shoe (A)	283.3			22	8.4	Owens-Illinois Glass (A)	582.7			109	13.8
Melville Shoe	151.7			80	17.7	Seabright-Oswego Falls	51.5			112	10.7
United Shoe Machinery	97.3			33	7.8	Standard Packaging (A)	87.9	53	13	53	9.4
ENTERTAINMENT						Thatcher Glass Mfg.	48.9			179	12.3
American Broadcasting-Paramount (K)	257.9			NA	9.7	ADVERTISING AND PUBLICITY					
American Optical	88.0			55	5.4	American Bank Note	24.5			26	6.0
Brunswick Corp.	278.1			849	11.2	Conde Nast	37.3			79	NA
Columbia Broadcasting	444.3			49	17.9	Crowell-Collier	35.9			-43	5.1
Columbia Pictures	115.8			104	6.0	Curtis Publishing	182.5			78	13.8
Decca Records	79.2			200	13.6	General Outdoor Advertising	41.8			88	10.1
Disney (Walt) Productions	88.4			924	13.3	Hall (W. F.) Printing	NA			32	9.5
Eastman Kodak	914.1			136	15.4	McCall Corp.	74.5			117	9.1
Loew's Theatres	46.1			NA	NA	McGraw-Hill Publishing	108.8			153	27.8
Metro-Goldwyn-Mayer	131.8			NA	NA	Meredith Publishing	81.8			141	18.3
National Theatres & Television (L)	86.7			NA	9.5	Time Inc.	271.4			114	22.4
Paramount Pictures	111.9			NA	7.9	PERSONAL SERVICE					
Polaroid Corp.	89.9			1,922	24.0	ABC Vending Corp.	86.1			134	14.0
Republic Pictures	29.3			UC	18.8	American Express	67.1			154	12.1
Stanley Warner (I)	123.9	NA	NA	NA	4.6	Automatic Canteen	148.5			877	15.4
Technicolor	27.3			42	12.4	Hertz Corp. (I)	102.9	54-56	22	174	20.3
Twentieth Century-Fox (L)	118.8			36	6.1	Hilton Hotels	219.0			356	5.3
U. S. Playing Card	21.5			19	14.5	Sheraton Corp.	170.8			422	5.9
Warner Bros. Pictures	87.1			NA	NA	Webb & Knapp (J)	50.0	NR	NR	NR	6.8

* Except otherwise indicated, base period is 1947-49 and % gain is 91%

© SM, 1960.

(Decline)

SALES MANAGEMENT'S DIRECTORY OF KEY PLANTS

See pages 94, 95

You and those on your management team are successful or not, depending on the way you handle people, planning, problems, work, authority. It is in these areas that the most costly managerial mistakes are made . . . often quietly, unwittingly . . . in practically every organization.

What are the symptoms of internal malignancy? Corrections?

This booklet, "The 10 Biggest Mistakes Executives Make," may be unsettling to you (and your associates) if you are blissfully unaware of today's subtle measures of executive performance.

"The 10 Biggest Mistakes" appeared earlier this year as a series of articles in **Sales Management** magazine. So unprecedented was the write-in avalanche for extra copies that **Sales Management** has packaged the series between two covers. Many executives who read the original installments have ordered multiple copies for distribution to branch and division managers. Examples: New York Air Brake, 10; Paper Mate, 12; The Flintkote Co., 12; Maxwell House, 50—etc.

Original articles authored by Management Critic Don Scott, of Scott Associates, whose organization has trained management executives in over 300 companies in 90 industries.

"The 10 Biggest Mistakes" may not always help you reach the perfect solution. But odds on your being right will be dramatically improved.



The 10 Biggest Mistakes Executives Make

By DON M. SCOTT
Don Scott Associates

\$2.00 per copy

Reprinted from SALES MANAGEMENT

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Price:

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prompt delivery.

Address:

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Sales Management
630 Third Ave.
New York 17, N. Y.

HOW DOES YOUR PACKAGING RATE WITH HOMEMAKERS?

Now available from *Sales Management* is a reprint of a three-part article on "FOOD PACKAGES As Housewives See Them." This report, on the attitudes, opinions, likes and dislikes of a balanced sample of over 1,000 homemakers, is divided into three main categories:

- 1) "We've Changed, but too Many Packages Haven't" . . . A show of hands, and minds, proving that the average housewife is usually willing to pay a little more for a more convenient or efficient package.
- 2) "New Packaging That We Want" . . . Personalized desires and opinions on the various types of packaging ideas such as aluminum cans, soda containers, multiple package holders and plastic packaging.
- 3) "Packages We Like; the Ones We Don't" . . . Comments and gripes from individual homemakers about the packages they like — and dislike — and what improvements they would like to see accomplished.

The entire series, in booklet form, \$1.00 per copy, from Readers' Service, Sales Management, 630 Third Avenue, New York City 17.

16 Case Histories on Use of Plant and Employment Data

(continued from page 43)

used every year to analyze the potential in each district. Our sales districts are built up along county lines. By using county SIC information available through Government and industrial business publications, we are able to compare potential with actual performance. These potential figures are also used in the preparation of quotas for each of the districts and also for analyzing manpower requirements by district.

We are often asked to prepare a study on a particular industry or a particular geographic area. Here again our basic approach is to use our Univac to give us our current status in the industry or area being analyzed. We then compare our present customers with all the known producers in this particular industry or the geographic area. For this type of study we use the SIC in specialized industry directories, state directories, etc.

Yardsticks for Evaluating SIC

SIC as applied by Foote Bros. Gear & Machine Corp.

To reap the most value from statistics by SIC, we first established a yardstick for each industry:

1. We first established a weight for each SIC. We coded a year's sales by SIC to determine the relative value of each industry. Since our sales are not necessarily representative of our industry we surveyed a representative sample of U.S. industry to learn the strengths and weaknesses of our sales efforts within each significant purchasing industry. To enlarge our sample and confirm the market research findings, we asked our field salesmen to complete a similar survey of their area. Participation by the salesmen gave more credibility to our findings.

2. We determined the total potential for the entire industry.

3. We were thus able to arrive at

a breakdown of the total market potential for each of the SIC groups.

Foote Bros. distributes its products directly to the large original equipment manufacturers, who look to our sales engineers for engineering service in the design of their power transmission drives, and to users (or consumers) as well as OEM's through our industrial distributors, who offer off-the-shelf service as our product line. Our studies of the original equipment market gave us reliability for a 4-digit SIC breakdown, whereas we were limited to a 2-digit breakdown for the user industries, whose purchases are either for replacement or in-plant use.

From our market studies were developed purchase indices which are the relationships between the sales of a given industry and its purchases of speed reducers and gearing:

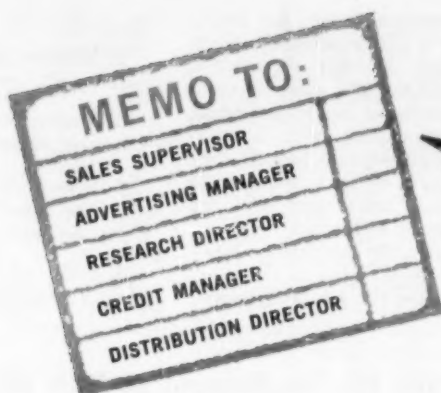
SIC	OEM Ind.	Sales* (000)	Est. Purch. (000)	Purch. Index
3531	Construction Machinery	\$1,989	\$10.0	.005
3532	Mining Machinery	309	1.2	.004
3535	Conveyors & Conveying Equipment	357	2.5	.007

Since there was not a direct relationship between the sales of user industries and their purchases of speed reducers, a logical relationship seemed to follow with their expenditures for plant and equipment. Our index was therefore developed for each 2-digit SIC group on expenditures. For example:

SIC	User Ind.	Capital* Spending (millions)	Purchases (millions)	Purch. Index
20	Food and Kindred Products	\$742	\$0.445	.006
22	Textile Products	408	0.816	.002

*Refer to Sales Management's estimates for 1958.
**McGraw-Hill Publishing Company's "Business Plans for New Plants and Equipment."

(continued on page 138)



Have you checked the profit potential in the revolutionary new Sanborn Buying Power Maps?

NEVER BEFORE has net income per household been broken down and graphically portrayed on the neighborhood level in recognized metropolitan areas throughout the United States.

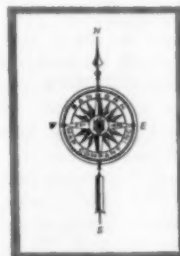
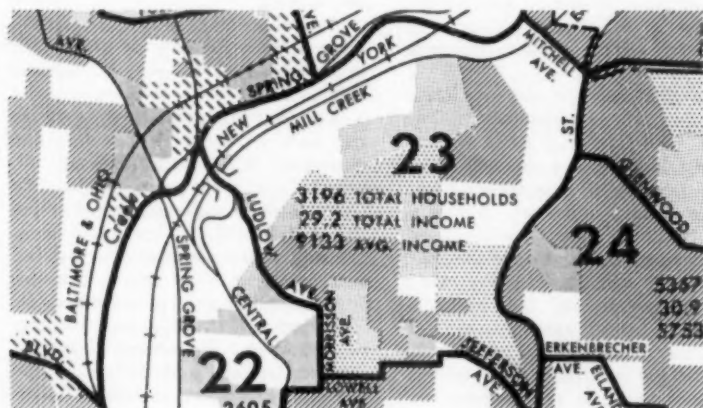
Think what that means!

Now the location of new stores (and shopping centers) can be planned according to best market potential . . . merchandise distribution to branch outlets more accurately gauged . . . advertising and sales

promotion more carefully refined . . . location of salesmen and assignment of quotas more realistically distributed . . . extension of credit better analyzed . . . appraisal of property more accurately judged!

These are just *some* of the uses foreseen for this map innovation, produced in cooperation with Sales Management, Inc. and its affiliate, Market Statistics, Inc. For sample map and full details, write our "Department SS" at the address below.

With vital statistical data for each neighborhood district, the maps further delineate relative buying power location through use of five colors (represented here by grey tints) to show five different classes of net income.



**SANBORN
MAP COMPANY, INC.**

629 Fifth Ave. • Pelham, N. Y.

(continued from page 136)

Now if we can reasonably estimate sales of OEM industries for the coming year and capital spending for user industries, we can make a reliable forecast of market potential for Foote Bros. products in the coming year; we can set our objectives and a marketing plan to accomplish these goals.

Using McGraw-Hill estimates for past and future capital spending and correlation techniques, we developed a formula for projecting the expected sales for each 4-digit OEM industry. We used McGraw-Hill spending plans for our estimate of the user market.

With these data Foote Bros. has marketing facts to develop the general marketing plan. Important to this is the geographical or marketing area assigned to each sales representative. In delineating sales territories, the following factors were given consideration:

1. Number and location of major accounts.
2. Size of accounts and anticipated work load.
3. Number of industrial distributors serving the area.
4. Geography of the area and the travel time required.
5. Estimated market potential for all products within the area by SIC.
6. Number of present customers and their sales volume for the previous years.
7. Field forecast.

In the development of a marketing plan for sales coverage, no one of these factors could be used as the determinant, inasmuch as each complements the other. Each territory has many things in common, even though some may have more opportunity for growth than others.

With the estimated national potentials established by SIC industry groups, we wanted to distribute these totals throughout the U.S. to give us the geographical dispersion. Using Sales Management data, we weighted each industrial trading area in accordance with the number of employees in OEM SIC groups by four digits and user industry groups by two digits. Industrial trading areas were then pieced together to form equitable sales territories for which we now had a measure of potential.

Logically, each sales engineer, being assigned his share of the market potential, will ask which by name are the accounts comprising the total. Since most directories identify manu-

facturing companies with the Standard Industrial Classification, the Foote Bros. market research department, working with our field sales representatives, uncovers many prospects worthy of sales effort. Since the time of our sales engineers is limited, they will refer many of these accounts to the industrial distributors who are working closely with them.

In summary, the SIC allows Foote Bros. Gear to:

1. Determine the market potential

for its products in the coming year.

2. Measure our company performance by SIC group.
3. Evaluate sales penetration by geographical marketing area.
4. Direct the marketing plan to focus our attention on important industry segments.
5. Assist our industrial distributors to do a selective selling job.

'We Use Employment in Each SIC Group'

SIC as applied by Signode Steel Strapping Co.

We have developed the estimated potential for the use of our products for each SIC classification. In allocating this potential as between sales territories, we use the employment of each SIC group within the area multiplied by the national potential per national employee. We originally did this on a 2-digit basis, then expanded it to a 3-digit basis, and for about the past five years have been carrying on these calculations on the 4-digit basis.

In order to facilitate this type of calculation, for the past several years we have developed and maintained our own "Signode Industrial Directory" of U.S. manufacturing plants with 20 or more employees. Each such individual plant is listed on an IBM card showing name of company, city, county, and state, 4-digit SIC class, approximate employment and postal zone. For use in estimating potentials by area, we have sorted these cards

by industry, and then run each group through the calculating punch multiplying the approximate employment of the plant by the dollar per employee potential figure applicable to the 4-digit SIC group, and we have punched the resulting potential estimate into the card. For any proposed or actual sales territory we simply group the cards by area or proposed area and add the potentials punched on them.

Perhaps an even more important use of our Signode Industrial Directory is that we have listed separately about 20% of the plants which have approximately 80% of the potential for our products. This list is broken down by sales territory and submitted to the field periodically so that the salesmen can check each of the plants listed to be sure that they have not overlooked any prospective purchaser of steel strapping of worthwhile size.

'The Question Arose in Our Advertising Department . . .'

SIC as applied by Handy & Harman, makers of silver hardware

Two years ago we became interested in SIC. About this time the question arose in our advertising department as to where to direct our advertising efforts for a basic form of fine silver.

As a first step we obtained state directories which commonly follow the SIC structure, and asked our accounting department to run off a tape (on our punch card equipment) showing the names, addresses, and purchases of the product. Then we coded these customers, according to the SIC, and so were able to determine what industries constituted the principal markets. This information was, of course, very valuable to our advertising people because most business magazines now have their subscribers

coded by SIC and the problem of selecting the proper ones for our ads was solved.

Also about this time the question arose in our company as to whether or not we should increase our production facilities on a complex form of a basic product. For many years we had been selling this product line to customers who sought us out and asked if we could supply them. We had made no really serious effort to sell it, but still our volume was increasing. Consequently, we wondered how much we could sell if we tried.

Again we coded our customers by SIC, and ran a mail survey, making two mailings. We covered 15 four-digit industries, and 21½% of the companies we wrote to replied. Meas-

ured by production workers, the companies that replied represented 26.3% of the industries.

These replies furnished us a good sample, and so we were able, with the aid of published market data, to calculate what the total market was and what share we had, not only nationally but by individual sales territories. We also secured an excellent list of prospects. Thus we obtained information that helped us decide what production equipment we needed and where we should direct our sales effort.

In view of the results achieved thus far, we decided to punch in on all of our customer cards their SIC code and their employment. We found about half of our customers in the state directories, and sent the balance questionnaires asking for their principal product or service, and their employment. About half of these companies answered the questionnaires. We gave the names and addresses of those that didn't answer to our salesmen, and asked them to get the information we needed on their next regular calls.

The two products mentioned above are relatively minor ones in our overall picture. So we decided to apply

these techniques to one of our major products. We produce a line of industrial products marketed primarily through distributors. A preliminary investigation revealed that large numbers of the metalworking industries use these products, and to survey them all was beyond our means. So, in consultation with our distributors, we selected 14 user industries.

We then went to the market research division of a publishing house and asked for a survey of the 14 markets as defined by 4-digit SIC codes. The survey was to determine the total markets. Next, we asked all of our distributors to give us their sales in each of the 14 industries.

From the results of the market survey, the information received from the dealers, and our own records, we were able to calculate the total market for each of the 14 industries in each of our salesmen's territories, and what share we had. We are now in the process of calculating the same information for our distributors.

Incidentally, in the market survey, responses were received from 67.6% of the firms approached, and these firms employed 73.6% of the total employees in these industries.

'To Select Recipients of Our Questionnaire . . .'

SIC as applied by Aeroquip Corp., makers of hose, hose fittings, load control & tie down equipment

We have a sales development program which includes the names of over 31,000 men and 8,300 plants that influence the purchase of hose, fittings and self-sealing couplings. We obtained this information through a questionnaire. We received a 68% response to this questionnaire and our file of names is continually updated. In fact, we make more than 300 changes to this list each month.

In order to select the recipients of our questionnaire, we chose the SIC 4-digit classifications that, in our opinion, were our best markets. Then we took the top 20% of these categories which would do approximately 80%

of the business. This cut-off was made by employment levels.

We are making quarterly mailings to the names on this list, offering these people helpful, technical information that will assist them in solving hose line problems. We have had excellent response to the first two of these mailings and have sent out over 2,500 pieces of literature to these prospects.

Our sales engineers and our distributors each have a set of cards with the names of the prospects in their territory and each of the leads we receive as a result of a mailing is followed up by these people in the field.

'To Determine If There Is a Field for Our Equipment'

SIC as applied by J. O. Ross Engineering Division of Midland-Ross Corp., manufacturers of drying, baking and curing ovens, ventilating, heating and conditioning units

We use the number of employees in various plants in our marketing program in an effort to determine the size of the plants and if their production is large enough to include our equipment. This is also a basis on which to determine whether or not

there is a field for our equipment in those particular areas. The number of employees in plant may also influence the design of our equipment; if we find enough small companies we may alter our design a bit to make the equipment fit the production



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. . . SM's New

Advertising Feature

AT YOUR SERVICE

on page 64

For full information write:

AT YOUR SERVICE

Sales Management

630 Third Ave.

New York 17, N. Y.

ARE YOU BEING TRANSFERRED TO THE N.Y. AREA?

Here's a house that may fit your needs. Ranch in Wyckoff, N. J.—Living room with colonial fireplace—center hall, dining room, complete carpeting throughout—kitchen, electric stove (2 ovens) dishwasher and plenty of closets, 3 bedrooms or den—1½ baths, mahogany paneled recreation room, workshop, outside cellar entrance, large patio with fireplace—oversize 2-car garage with separate tool section—storm windows and screens, hot water oil heat—\$125 includes year round hot water—dead end street—2 blocks to school. Custom built \$34,900.

Box #1252 Sales Management

MARKETING EXECUTIVE

Age 31; BA, MBA Wharton. I have had a most successful, dynamic background in the chain and department store field. The experience I have gained is heavy in all phases of Business Management with emphasis on Marketing including Advertising, Sales, Merchandising, and New Product Development. If you need Planning, Organization, Administration, and Sales, I'm your man. The position I desire will have a substantial growth potential. Box 1250.

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needs of these particular companies.

Where territories have been previously developed, or existing territories are satisfactory, such data have been used to apportion sales potentials among territories and sales personnel. In cases where no dollar potentials are available, such indices have been applied directly to sales budgets as a form of quota guide.

The types of plants used, or areas

of employment, of course, depend on the product with which we are working. Recently, for example, we used the steel, textile, lumber and paper industries, since these were key customers of one of our divisions. Other occasions have called for metal fabricating or metalworking industries, since the location of these concerns were vital to the placement of sales personnel.

'To Determine Most Beneficial Areas for Interviewing'

SIC as applied by Worthington Corp., makers of turbine-generators, engines, pumps, air conditioning and refrigeration, meters and power transmission equipment

We use statistics covering the number of plants and employees coded by SIC in the following ways:

1. To locate major market areas by county and industry.
2. To determine market potentials.
3. To determine the most beneficial areas for interviewing.

In interviewing, for example, if we were going to make a study of a certain product, we would determine the most likely applications by industry. We would divide the industry into its SIC classifications and locate the areas with the largest potential. We would also review the areas of applications to determine minimum travel costs.

'Territories Are Then Adjusted by the Sales Manager'

SIC as applied by The Stanley Works, makers of hardware, electric tools, steel strapping

Our principal use of "number of employees" and "number of plants" figures by Government SIC has been for the development of new sales territories. In this case, such data are developed into indices (simple percentages of the total number of plants or employees) by these geographic limits, then added together into ter-

ritories. The size of each territory, and the number of territories, depends upon the number of our present salesmen or, in some cases, the planned number of salesmen. These somewhat academically developed territories are then adjusted by the sales manager in the light of knowledge and experience.

'To Locate Branch Warehouses'

SIC as applied by the Grinnell Co., makers of sprinklers, valves, pipe, plumbing and heating material

We have used number of manufacturing plants and number of employees:

1. In working out potential (percent of U. S. total) for each Grinnell sales territory. We apply weights to three basic components—number of

establishments in selected industries, number of employees in manufacturing and mining, and your own SM sales potential (by counties).

2. In reporting on the value of a particular city as a likely location for a Grinnell branch warehouse.

You Will Need This Directory

A basic working tool for everyone engaged in using the SIC (Standard Industrial Classification) codes is the 434-page "Standard Industrial Classification Manual." The manual gives the two and four-digit code num-

bers and a word description for each. By means of this code you can identify the products and services of your customers and prospects. Write: Superintendent of Documents, Washington 25, D. C., with a remittance of \$2.65.

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Bugs Bunny version: "Seven more hopping days till Christmas."

"Le Sueur," name of a favorite brand of peas at our pad, means "sweat; perspiration; labor-pains" if my French dictionary isn't kidding me.

In the Manhattan directory are a Barbara Sevier and a Bob Seville, but no Barbara Seville.

Pedantic version: "Microcosm, isn't it?"

Old-timer: One who can remember roll-top desks.

Richard Armour often brightens my day with nonsense like this: "Kids eat their spinach/Inach by inach." He would understand my zany parody on an Ethel Merman hit: "There's no vinist like chauvinist."

Schmidt's of Philadelphia talks about "the one man in four who wants the full-taste beer." What do the other three want, bellywash?

That sprig of parsley you toss aside disdainfully with a flick of a fork, a Columbia professor once told me, contains up to 15,000 Sherman units of Vitamin A, the growth vitamin. Now, aren't you sorry?

Girvin Cuthbert, of Cedar Grove, N. J., sees a sign over a fish market in the French Quarter of New Orleans reading: "Name your poisson."

Paul Lindsay, spm for Osborne-Kemper-Thomas, the calendar people, liked a Copy Shop ad in SM headed "Copywriting Studio, Confidential Work," but wonders if it's so confidential they write with the shades drawn. No, Paul, only the rough sketches are drawn, and is that corny!

"Wanted-Dedicated weight-lifter for training partner. Ernie's Gym, 1620 W. Venango St. GE 8-0247." I'd be more dead than dedicated lifting anything heavier than a martini.

I liked this musical limerick:

There was a young lady from Rio,
Who tried to play Haydn's First Trio.

But her skill was so scanty,
She played it andante
Instead of allegro con brio.

Looking back, the naming of railroads was curious business. Matching cities with states, for example, like Baltimore & Ohio, Boston & Maine, Delaware & Lackawanna. Any more?

An advertiser announced a consumer contest in quest of a name for

his new transistor radio. I wrote my dealer from whom I had just bought a 23-inch console. No contest-blank came. I wrote the wholesaler. No blank and no reply. I wrote the stockholders' relations division, got a nice letter promising action. And then, as Carter's Pills say, nothing. I still have a good, unused name for a midget radio.

The Government has no money of its own. All it has is what it takes from you and me in the form of taxes, plus some crumbs from canal tolls. Before we think of Uncle Sam as loaded, before we say: "Let the Government do it," let us ponder this simple statement by Teddy Roosevelt: "The Government is us. We are the Government, you and I."

Instant tea already accounts for 5% of the market, according to The Times, quoted by Curtis Research. Paper napkins, too, are in the lap of luxury.

The Gift of Prophecy

Saint Paul talks about this in one of his epistles to the Corinthians. Who among us in marketing has it? And what a gift it would be!

For example, steel might have foreseen aluminum challenging it and acted accordingly. Aluminum, in turn, might have prophesied the versatility of plastics and envisioned encroachments.

Among modern prophets, I have always admired Jim Farley, who hit it on the nose when he said the Republicans would carry Maine and Vermont in 1936. Period. They did!

That TV program that probes the paranormal, "Alcoa Presents," has shown us some people with the uncanny gift of precognition. They could write their own ticket in our line.

The ability to see around corners (and it may be the lot of electronic computers, as hinted in SM, July 1, page 25) would obviously save unnumbered motions and uncounted money in merchandising.

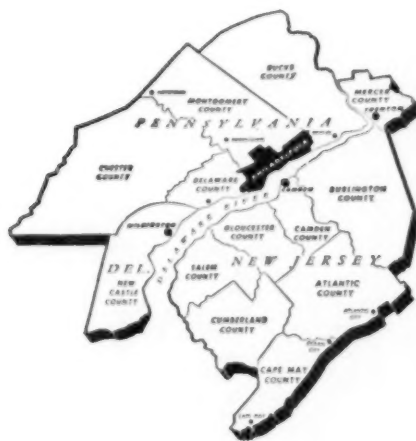
All of us are gifted with hindsight (20-20 hindsight, Holiday magazine's Caskie Stinnett called it brightly). But how few of us have true foresight? The answer to that is obvious in the grim number of business failures Dun & Bradstreet reports each year.

Jimmy Durante might be forgiven for failing to see beyond his nose, but the rest of us should try, even with the aid of a Univac. A prophet may be without honor, but he would save the firm quite a bundle.

T.H.T

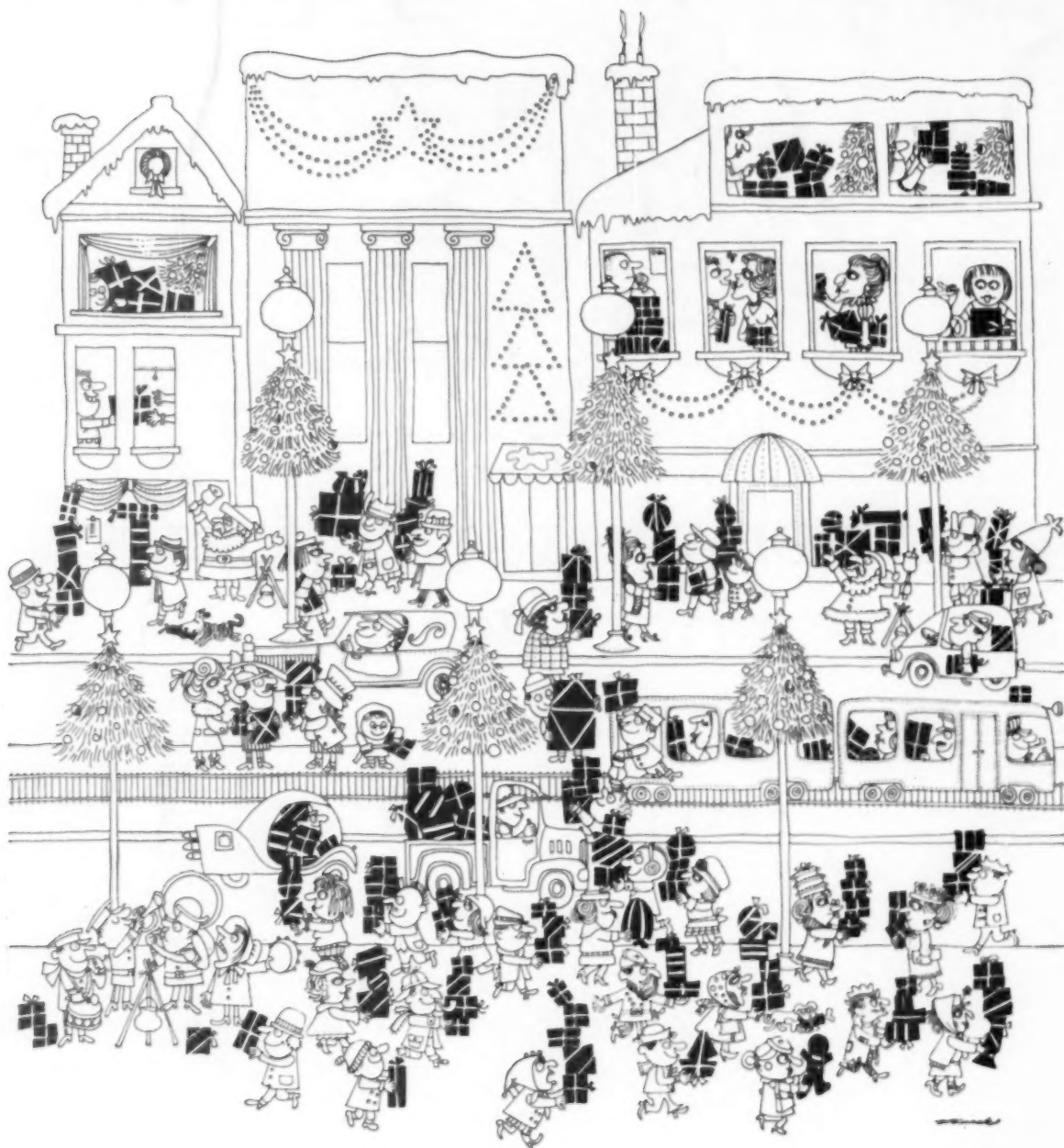


61 PERCENT OF DELAWARE VALLEY'S POPULATION LIVES IN THE SUBURBS



The Philadelphia Inquirer delivers your advertising to 30% more suburban adult readers than does any other Philadelphia newspaper.

Sources: 1960 Sales Management Survey of Buying Power; Continuing Study of Adult Newspaper Readership by Sindlinger & Company, Inc. based on over 50,000 interviews, 1957-59. (Summary of 1959 study available on request.)



Media's Law:

To a seller of Christmas gifts, the pulling power of an advertising medium is equal to the number of gifts sold.

To media men, pulling power is influenced by several interrelated factors. The law or formula looks like this:

Pulling Power
=
Circulation Volume
×
Editorial Vitality
×
Reader Confidence

The Chicago Tribune, with a circulation $1\frac{1}{2}$ times that of any other Chicago newspaper, out-pulls the other papers by at least 3 to 1 and as much as 15 to 1.

Chicago Tribune

